SERVICE MANUAL

NAD

SERVICE SAFETY PRECAUTIONS (UL)

1. Use exact replacement parts for critical locations marked "⚠"
2. Return lead dress to original position and re-install protective covers.
3. Before returning to customer, test for shock hazard; use either mothod A or B:

A. Leakage test "cold":
   1. Unplug the AC cord; turn power switch ON.
   2. Connect one lead of High Voltage Insulation Tester to both prongs of the AC plug.
   3. Touch other lead to all exposed metal parts.
   4. Impedance measurement must be 0.3-5.0 Megohms.

B. Leakage test, "live" :
   1. Plug unit directly into the AC outlet: do not use isolation transformer.
   2. Connect one lead of the Leakage Current Tester to earth ground.
   3. Touch other lead to all exposed metal parts.
   4. Leakage measurement must be less than 0.5 milliamps.

712 TUNER AMPLIFIER

712

TUNER AMPLIFIER

SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

Reference No	Part Number	Description
F503-F504*AH	5120-0019-0	Fuse 4A 125V Time Lag LBC (UL/CSA)
F503-F504*B,B1,C	5120-0017-0	Fuse 4A 250V Time Lag HBC (SEMKO/VDE)
F505-F507*AH	5120-0026-0	Fuse 315mA 250V Time Lag LBC (UL/CSA)
F505-F507*B,B1,C	5120-0027-0	Fuse 315mA 250V Time Lag LBC (SEMKO/VDE)

NOTE :

- **<*AH > : USA, CANADIAN MODEL ONLY.**
  <*B > : UK MODEL ONLY.
  <*B1 > : AUSTRALIAN MODEL ONLY.
  <*C > : EUROPEAN MODEL ONLY.

2. Safety-check out

(Only U.S.A. model)

After correcting the original service problem perform the following safety check before releasing the set to the customer.

Connect the insulating-resistance tester between the plug of power supply cord and the screw on the back panel.

Specifications : 3.3 Mohm±10% at 500V.

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SPECIFICATIONS

POWER AMPLIFIER SECTION

THD (0.25W-30W, 20 Hz-20 kHz)		**≤ 0.03%**
Continuous Power Output	8-ohm	**≥ 30W**
(0.03% THD)	4-ohm	**≥ 30W**
Clipping Power Output		
(1kHz, 0.1% THD)	8-ohm	**≥ 33W**
Signal / Noise Ratio		
(A-wtd,ref.1W, 220-ohm source)	8-ohm	**≥ 99 dB**
Frequency Response (20 Hz-20 kHz)		**0 ± 0.6 dB**
Dynamic Power (1 kHz)	8-ohm	**≥ 50W**
Damping Factor at 50 Hz	8-ohm	**≥ 50**
Input Sensitivity (30W)	8-ohm	**1.07 ± 0.05 V**
Channel Separation	1 kHz	**≥ 70 dB**
(15W)	10 kHz	**≥ 60 dB**
Soft Clipping (0.1% THD, 8-ohm)		
THD (SC ON)		**≤ 10%**
Output Reduction(SC ON)		**≤ 1.5 dB**

PREAMPLIFIER SECTION

Input Sensitivity (1V out, pre-out)		**165 ± 20 mV**
Frequency Response		
(20 Hz-20 kHz, 500 mV in/out, pre-out)		**0 ± 0.6 dB**
THD (20Hz-20KHz, 2V in/out, pre-out)		**≤ 0.02%**
Signal / Noise Ratio	8-ohm	**≥ 85 dB**
(A-wtd, 1W SPK out, 1K-ohm source, 500 mV in)		
Tone Control Responses		
Bass (50 Hz)		**± 10 ± 1.5 dB**
Treble (10 kHz)		**± 7 ±1.5 dB**
Channel Balance L & R		
Maximum Volume (15W)		**± 0.5 dB**
-1 dB to -20 dB		**± 1.5 dB**
-21 dB to -60 dB		**± 3 dB**
-61 dB to -70 dB		**± 5 dB**
Channel Separation	1 kHz	**≥ 65 dB**
(2V in/out, pre-out)	10 kHz	**≥ 55 dB**
Crosstalk		
Source-to-Source	1 kHz	**≥ 83 dB**
(2V in/out, pre-out)	10 kHz	**≥ 68 dB**
Tape replay-to-tape record	1 kHz	**≥ 75 dB**
(2V in/out, tape out)	10 kHz	**≥ 60 dB**
Maximum Output Level (0.1%THD, 500 mV)		
Pre-out	1 kHz	**≥ 6 V**
Headphone (600-ohm load)	1 kHz	**≥ 10 V**
Maximum Input Signal		
(0.1%THD, pre-out)	1 kHz	**≥ 6 V**

FM TUNER SECTION

		*B,*B1,*C	*AH
Input level is expressed as the reading in open-circuit of 75-ohm soure impedance signal generator			
Usable Sensitivity (98 MHz)		≤ **23 dBµ**	≤ **9.5 dBµ**
50 dB Quieting	Mono	≤ **21 dBµ**	≤ **14 dBµ**
	Stereo	≤ **40 dBµ**	≤ **36 dBµ**
60 dB Quieting	Mono	≤ **31 dBµ**	≤ **23 dBµ**
	Stereo	≤ **50 dBµ**	≤ **46 dBµ**
Signal / Noise Ratio	Mono	≥ **73 dB**	≥ **73 dB**
(60 dBµ, IHF wtd)	Stereo	≥ **65 dB**	≥ **70 dB**
Frequency Response (30 Hz - 15 kHz, 60 dBµ)		**0 ± 0.7 dB**	**0 ± 0.7 dB**
Channel Separation (60 dBµ)	30 Hz	≥ **30 dB**	≥ **35 dB**
	1 kHz	≥ **32 dB**	≥ **41 dB**
	10 kHz	≥ **27 dB**	≥ **32 dB**
Alternate Channel Selectivity (40 dBµ, ± 400 kHz)		≥ **65 dB**	≥ **60 dB**
Capture Ratio (40 dBµ)		≤ **7 dB**	≤ **2 dB**
AM Suppression (60 dBµ, 100% Mod.FM, 30% Mod AM)		≥ **54 dB**	≥ **54 dB**
Image Rejection (119.4 MHz)		≥ **74 dB**	≥ **74 dB**
I.F. Rejection (10.7 MHz)		≥ **75 dB**	≥ **75 dB**
Pilot Suppression (60 dBµ)		≥ **60 dB**	≥ **60 dB**
THD (60 dBµ, 100%Mod. for AH, 40% Mod. for C,1 kHz)			
	Mono	≤ **0.2%**	≤ **0.2%**
	L - R	≤ **0.3%**	≤ **0.12%**
	L + R	≤ **0.2%**	≤ **0.2%**
Auto-Search Sensitivity		**27 ± 5 dBµ**	**27 ± 5 dBµ**
Center Tune Sensitivity		**20 ± 3 dBµ**	**20 ± 3 dBµ**
Stereo Indicator Sensitivity	On	**23 ± 4 dBµ**	**23 ± 4 dBµ**
	Off	**21 ± 4 dBµ**	**21 ± 4 dBµ**

AM TUNER SECTION

Usable Senstivity (1000 kHz or 999 kHz)	≤ **17 dBµ**	≤ **23 dBµ**
Signal / Noise Ratio (66 dBµ, 30% Mod, 1000 kHz or 999 kHz)	≥ **45 dB**	≥ **45 dB**
THD (66 dBµ, 1000 kHz or 999 kHz)	≤ **2%**	≤ **2%**
Adjacent Channel Selectivity (± 10 kHz or ± 9 kHz)	≥ **19 dB**	≥ **19 dB**
Image Rejection (1900 kHz or 1899 kHz)	≥ **36 dB**	≥ **36 dB**
I.F. Rejection (450 kHz)	≥ **46 dB**	≥ **46 dB**
Auto-Search sensitivity	**40 ± 7 dBµ**	**42 ± 7 dBµ**

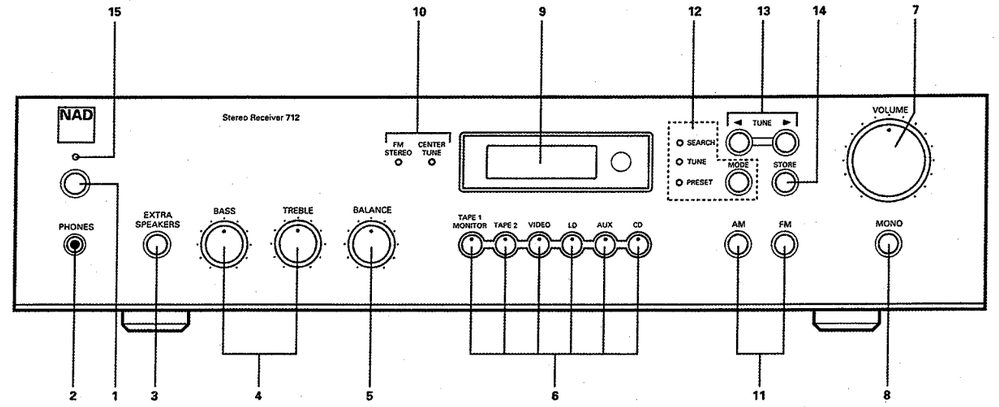
DIMENSIONS AND WEIGHTS

Net Weight	: 6.9 kg, 15.2 lb
Shipping Weight	: 8 kg, 17.6 lb
Dimensions (WxHxD)	: 435 x 110 x 310 mm

NAD-00126 / DRUCK 2

REAR PANEL / FRONT PANEL VIEW

FRONT PANEL

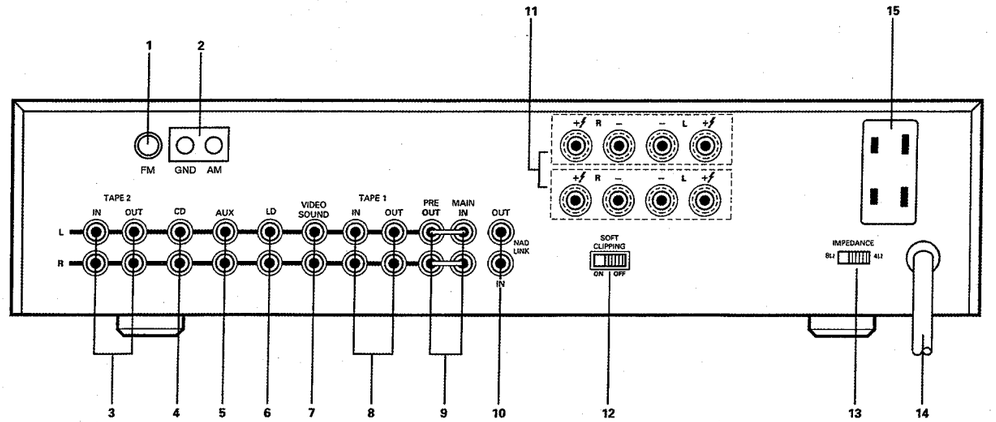


1. POWER SWITCH
2. PHONES SOCKET
3. EXTRA SPEAKERS
4. BASS & TREBLE CONTROL
5. BALANCE CONTROL
6. TAPE 1 MONITOR, TAPE 2, VIDEO, LD, AUX, CD
7. VOLUME CONTROL
8. MONO
9. DISPLAY PANEL
10. FM STEREO AND CENTER TUNE INDICATORS
11. AM AND FM SELECTOR
12. MODE SWITCH AND INDICATORS
13. TUNE UP/DOWN
14. STORE
15. STAND BY INDICATOR

The graphic symbol of a lightning flash with an arrow point within a triangle signifies that there is dangerous voltage within the unit and it poses a hazard to anyone removing the cover to gain access to the interior of the unit. **Only qualified service personnel should make any such attempt.**

The graphic symbol of an exclamation point within an equilateral triangle warns a user of the device that it is necessary to refer to the instruction manual and its warnings for proper operation of the unit.

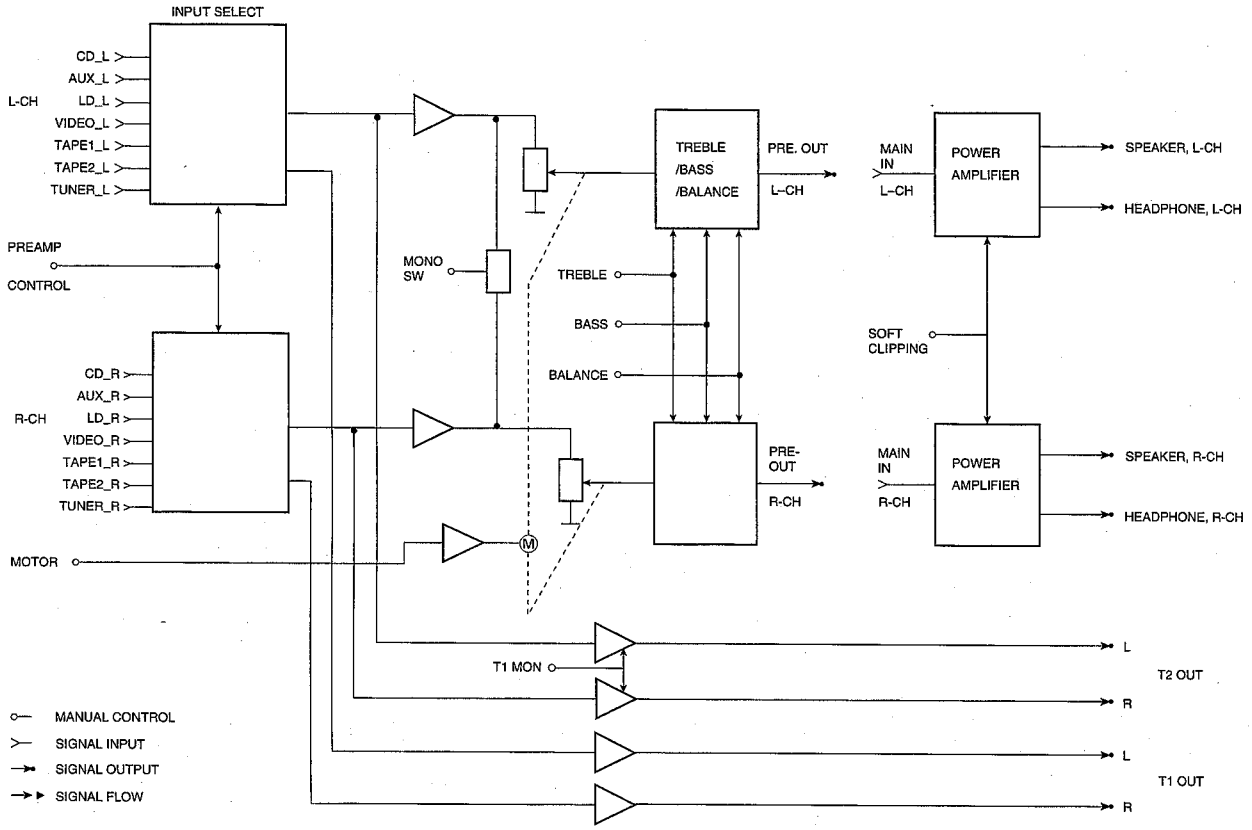
REAR PANEL CONNECTIONS



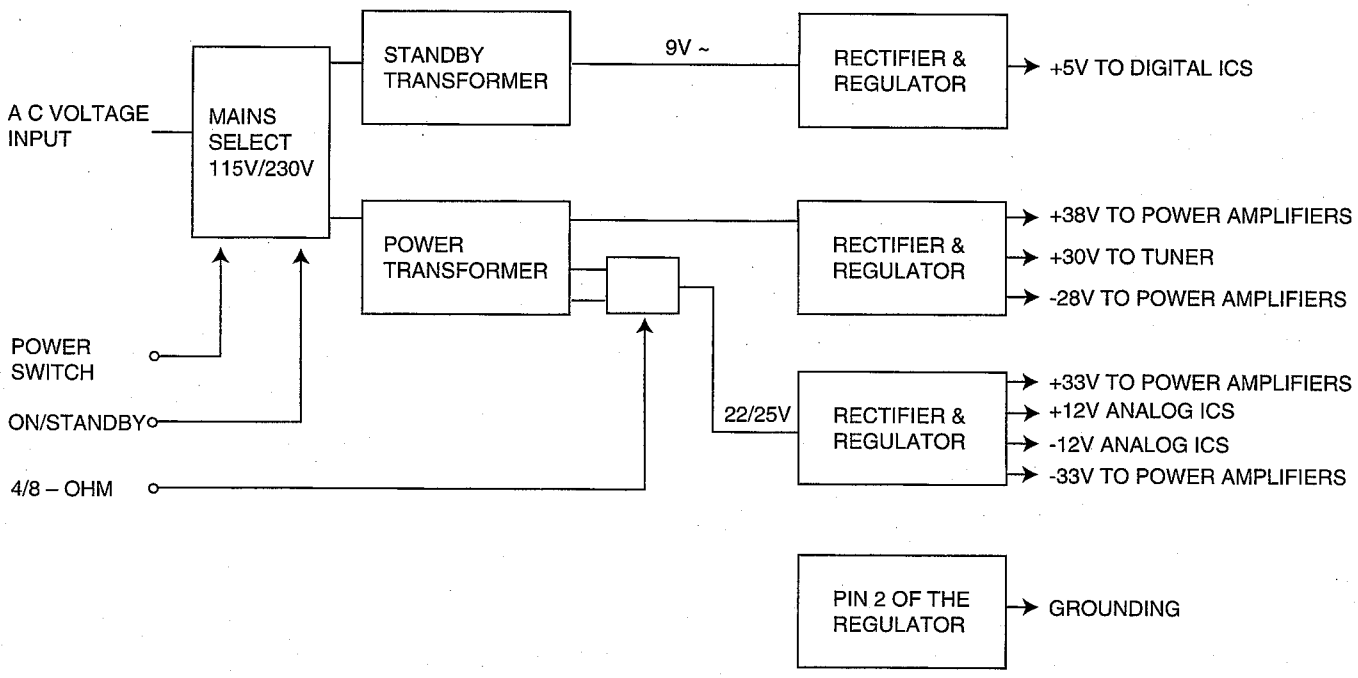
1. FM ANTENNA
2. AM ANTENNA
3. TAPE 2 IN/OUT
4. CD INPUT
5. AUX INPUT
6. LD INPUT
7. VIDEO SOUND INPUT
8. TAPE 1 IN/OUT
9. PRE OUT/MAIN IN
10. NAD LINK IN/OUT
11. SPEAKERS A AND B
12. SOFT CLIPPING SWITCH
13. IMPEDANCE SWITCH
14. AC POWER CORD
15. AC OUTLETS (ONLY IN 120V MODEL)

BLOCK DIAGRAM

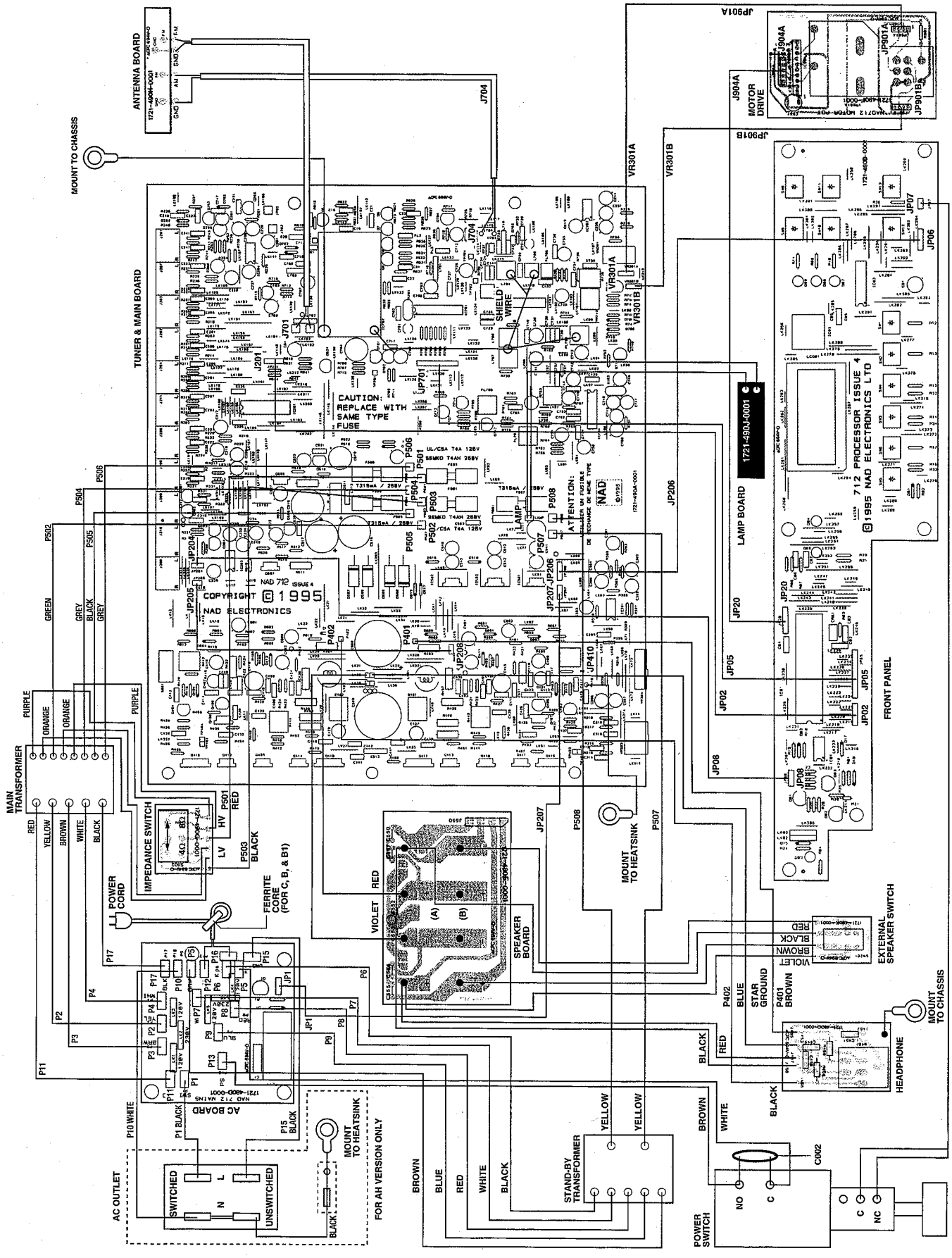
SIGNAL FLOW DIAGRAM



POWER SUPPLY



WIRING DIAGRAM



DISASSEMBLY INSTRUCTIONS

1. Remove machine screws M4.0 x 6.0 (① to ④) from the side panels.
   Remove tapping screw 3.0 x 8.0 ⑤ from the back panel.
   Refer to **Figure No. 1.**

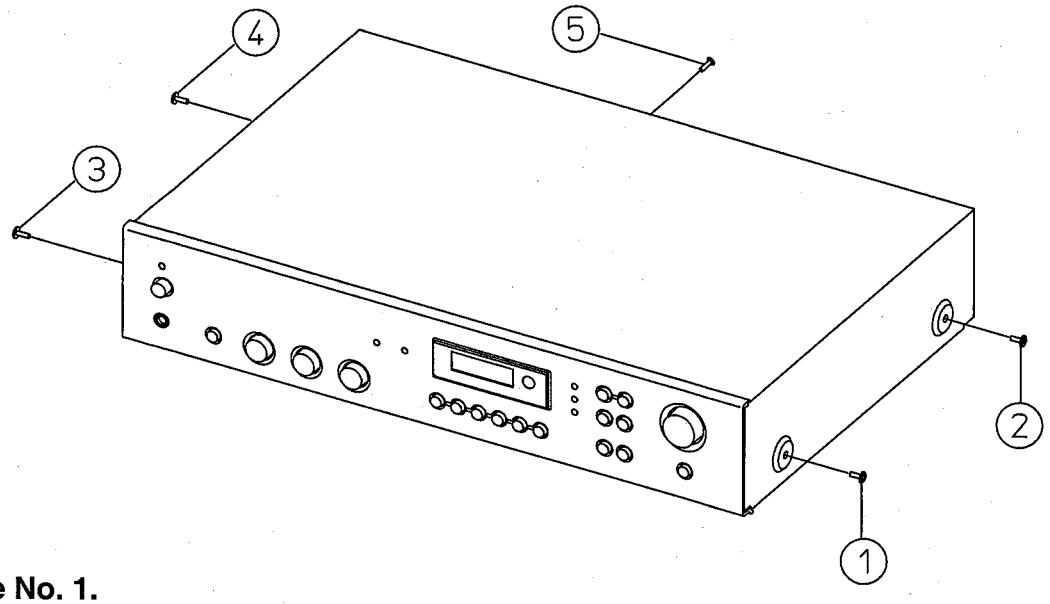


Figure No. 1.

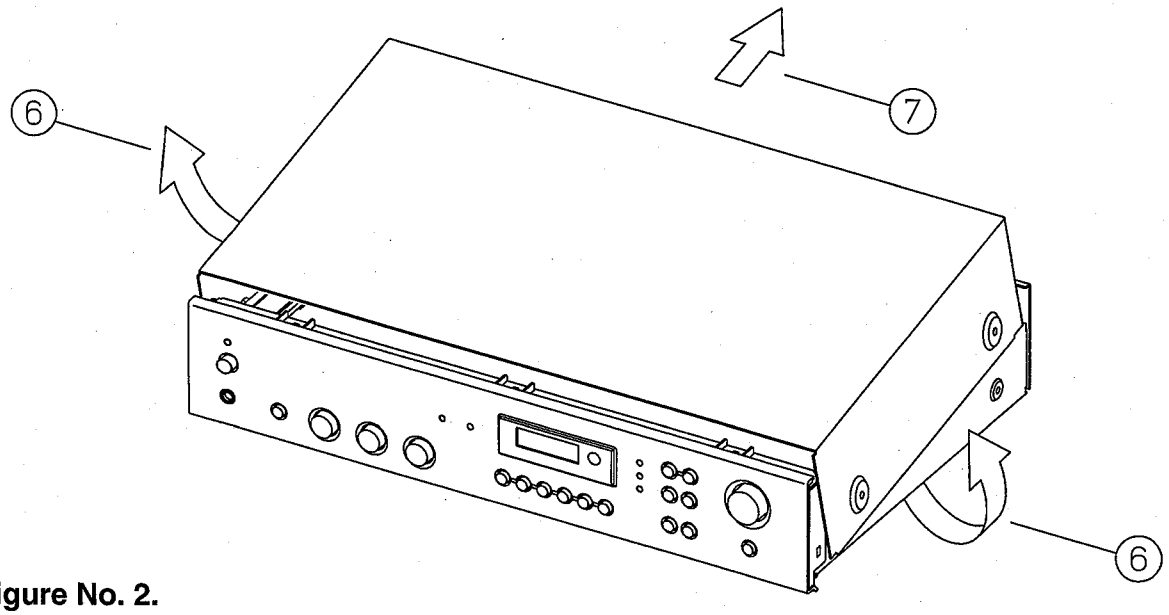
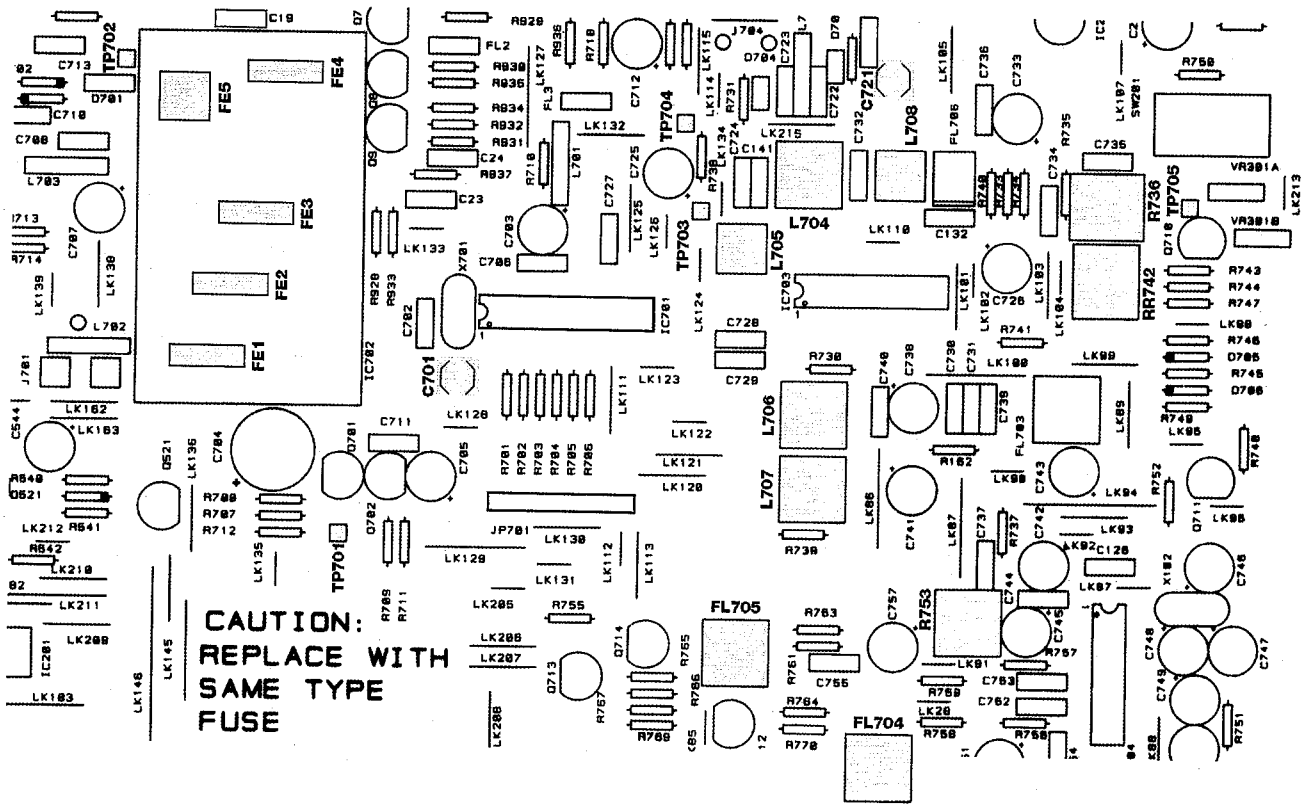


Figure No. 2.

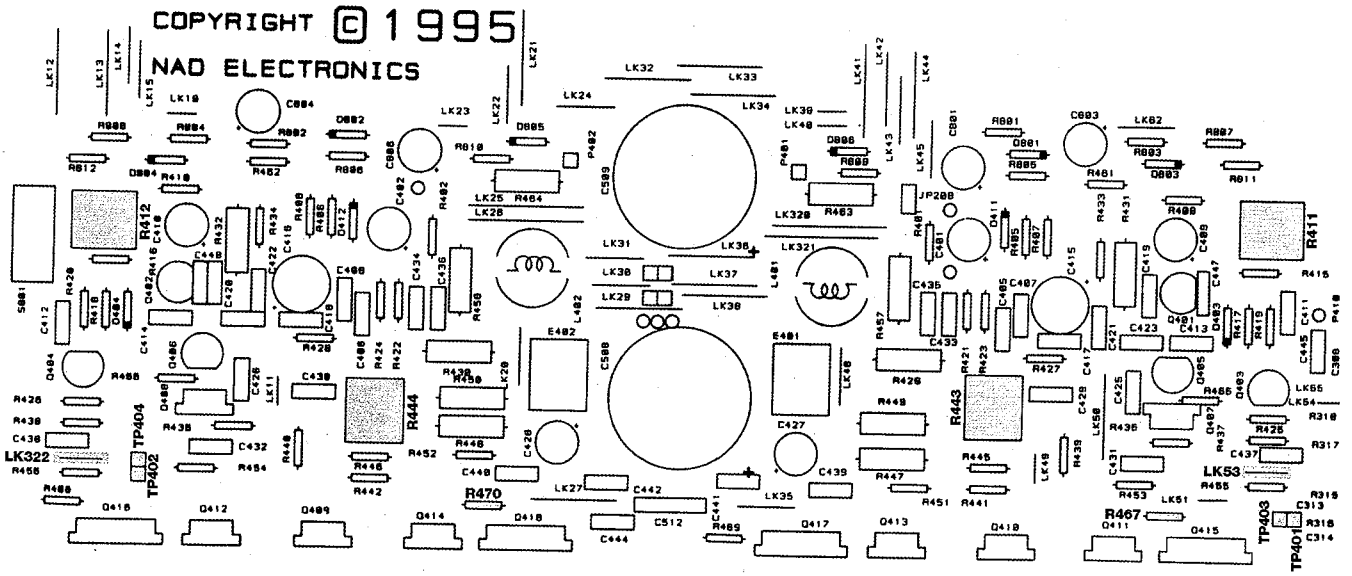
2. Pull both sides of the TOP COVER slightly outwards, tilt approximately 35° and then move in the direction shown in **Figure No. 2.**

ADJUSTMENT POINTS DIAGRAM

1. TUNER



2. IDLE CURRENT



ALIGNMENT PROCEDURES

FM SECTION

AF MODULATION:	1 kHz, 75 kHz DEVIATION, MONO MODE
STORE FREQUENCY:	98 MHz, 87.5 MHz, 108 MHz, 90 MHz, 106 MHz
RF LEVEL:	75-ohm IMPEDANCE, OPEN CIRCUIT

OSCILLATION TUNING VOLTAGE

Connect DVM between TP701 & GND.
For A16 Front-end Module:
Tune to 87.5 MHz, adjust FE4 (osc coil) to read 3 ± 0.5 V.
Tune to 108 MHz, adjust FE4 (osc coil) to read 20.5 ± 0.5 V.
For G55 or G58 Front-end Module:
Tune to 87.5 MHz, adjust FE4 (osc coil) to read 1.6 ± 0.5 V.
Tune to 108 MHz, adjust FE4 (osc coil) to read 8.0 ± 0.5 V.

I.F.

Connect DVM between TP703 & TP704
Apply 10.7 MHz, 90 dBμ via 1K-ohm to TP702.
Adjust L706 to read 0 ± 50 mV.
Adjust L707 for minimum distortion (THD).
Repeat adjustment until no further improvement.

SYNTHESIZER I.F. TRACKING

Disconnect 10.7MHz tap to TP702.
Maintain connection of DVM across TP703 & TP704.
Apply 98 MHz, 60 dBμ to antenna input.
Tune to 98 MHz.
Adjust C701 to read 0 ± 20 mV.
Fine adjust L707 for minimum distortion.
Repeat until no further improvement.

FRONT-END IF

Connect DVM between TP705 and ground.
Turn RR742 fully clockwise and R736 fully anti-clockwise.
Apply 98 MHz, 18 dBμ to antenna input.
Adjust FE5 to obtain minimum reading on DVM.

R.F.

Apply 98 MHz, 8 dBμ for AH or 22 dBμ for C, to antenna input.
Check THD.
If THD > 3%, adjust FE1, FE2 & FE3 in the front-end module with non-metallic tool for minimum THD.
Check THD at 90 MHz & 106 MHz with 9 dBμ input for AH, or 23 dBμ for C.

AUTO-SEARCH LEVEL

Turn R736 fully clockwise and RR742 fully anti-clockwise.
Set stereo modulator to L = R mode.
Apply 98 MHz, 18 dBμ to antenna input.
Adjust R736 until Center Tune LED just light.
Increase input level to 22 dBμ.
Adjust RR742 until FM stereo LED just light.
Check if auto-seach works at 28 dBμ.

FM Stereo: 1kHz, 67.5kHz devi., 60dBμV, Pilot signal 19kHz, 7.5kHz devi.

STEREO SEPARATION & PILOT SUPPRESSION

Set modulated signal to Left only.
Adjust R753 for minimum output at Right channel.
Set modulated signal to Right only.
Adjust R753 for minimum output at Left channel.
Repeat until readings are the same.
Turn off modulating signal, leaving the pilot tone.
Adjust FL704 and FL705 for minimum outputs on Right and Left channels respectively.

AM SECTION

For version conversion, press Tune UP while pressing Mode switch to toggle the AM steps between 9 kHz and 10 kHz.
AF MODULATION: 400 Hz, 30%
FOR AH VERSION, STORE FREQUENCIES 600, 1000, 1400 kHz.
FOR C & B VERSIONS, STORE FREQUENCIES 603, 999, 1404 kHz.
Connect 22 pF ceramic capacitor between signal generator and antenna terminal.

OSCILLATION TUNING VOLTAGE

Connect DVM between TP701 & GROUND.
Tune to 603/600 kHz.
Adjust L705 for 1.75 ± 0.05 V.

I.F.

Apply 999/1000 kHz, 35dBμ to antenna input.
Tune to 999/1000 kHz.
Adjust L708 for maximum output.

R.F.

Apply 603/600 kHz, 45dBμ.
Tune to 603/ 600 kHz.
Adjust L704 for maximum output.
Apply 1404/1400 kHz, 45dBμ.
Tune to 1404/ 1400 kHz.
Adjust C721 for maximum output.
Repeat until no further improvement.

AMPLIFIER ADJUSTMENT

IMPORTANT

Speaker impedance switch should be in the 8 ohms position while adjusting the amplifier. Reset switch after adjustment procedure is completed.

1) Output Offset Voltage (No load, no input Signal)

Connect DC voltmeter across L channel speaker terminals.
Adjust R411 for 0 ± 30 mV reading.
Connect DC voltmeter across R channel speaker terminals.
Adjust R412 for 0 ± 30 mV reading.

2) Idle Current

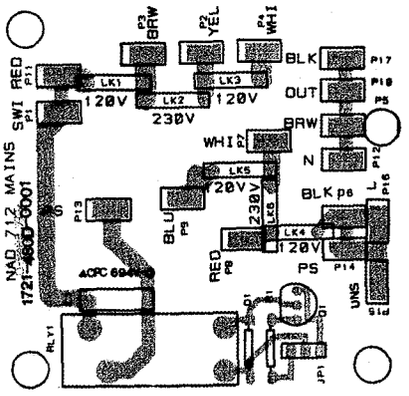
Remove solder link in between TP 401 and TP403, or cut LK53.
Connect DC millivoltmeter at TP401 and TP403 (i.e. across R455, 1-ohm resistor).
Adjust R443 for 25-35mV reading on voltmeter.
Remove solder link in between TP 402 and TP404, or cut LK322.
Connect DC millivoltmeter at TP402 and TP404 (i.e. across R456, 1-ohm resistor).
Adjust R444 for 25-35 mV reading on voltmeter.

3) Final Adjustment

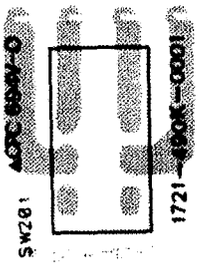
Leave power on for at least 5 minutes.
Repeat step 1
Repeat step 2
Replace solder link between T401 and T403 for left channel, and TP402 and TP404 for right channel, or reconnect LK53 and LK322.

PCB LAYOUT

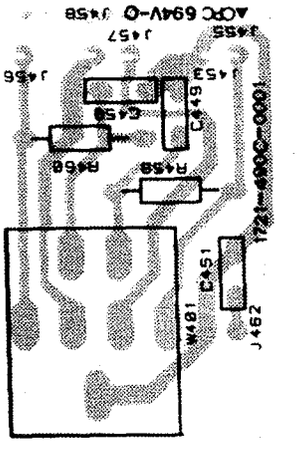
AC



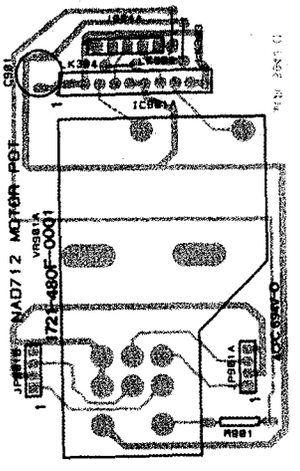
EXTRA SPEAKER SWITCH



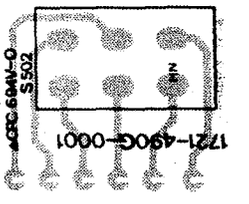
HEADPHONE



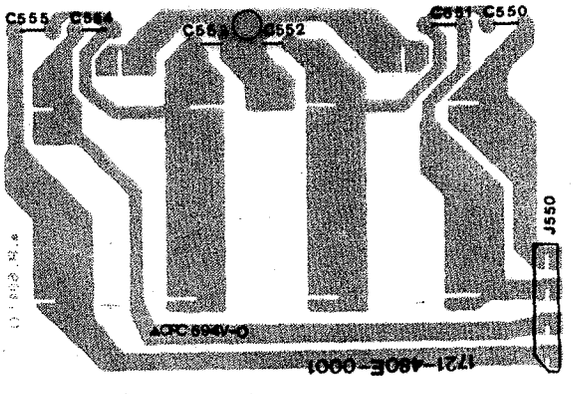
MOTOR DRIVE



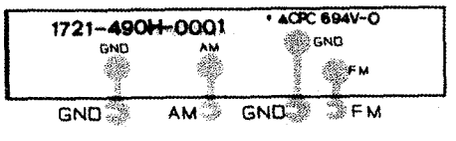
IMPEDANCE SWITCH



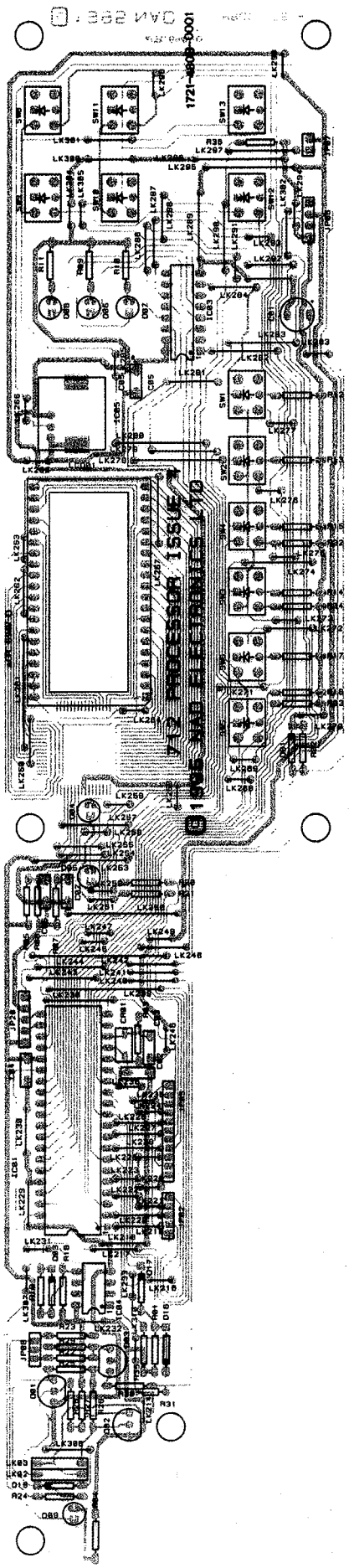
SPEAKER TERMINAL



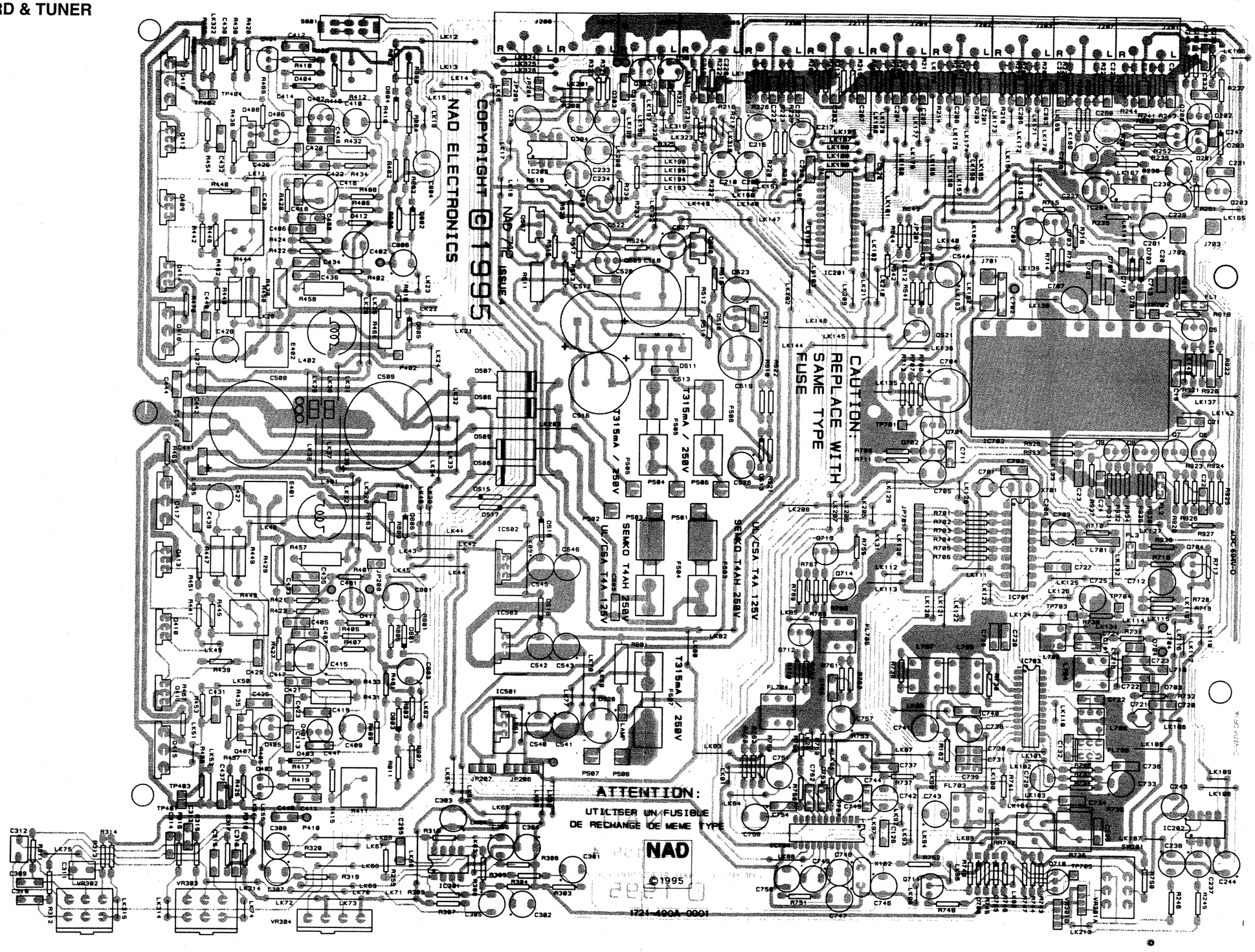
ANTENNA



FRONT PANEL

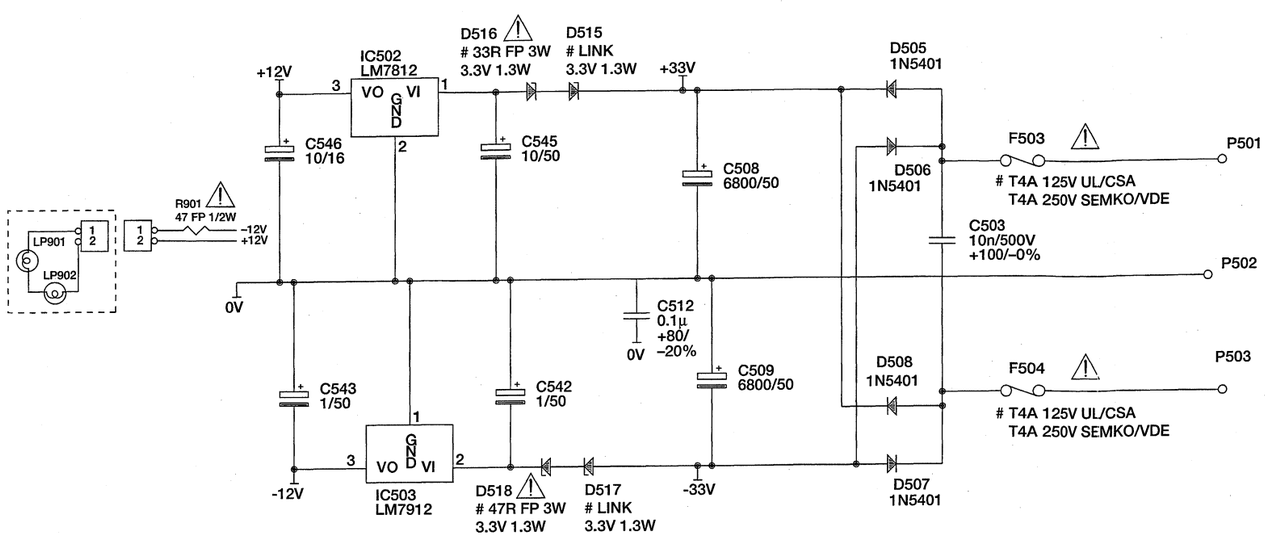


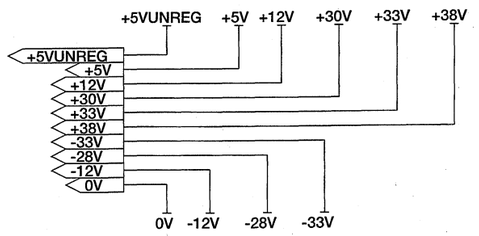
MAIN BOARD & TUNER

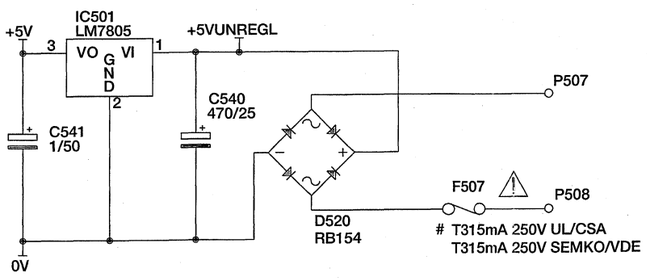


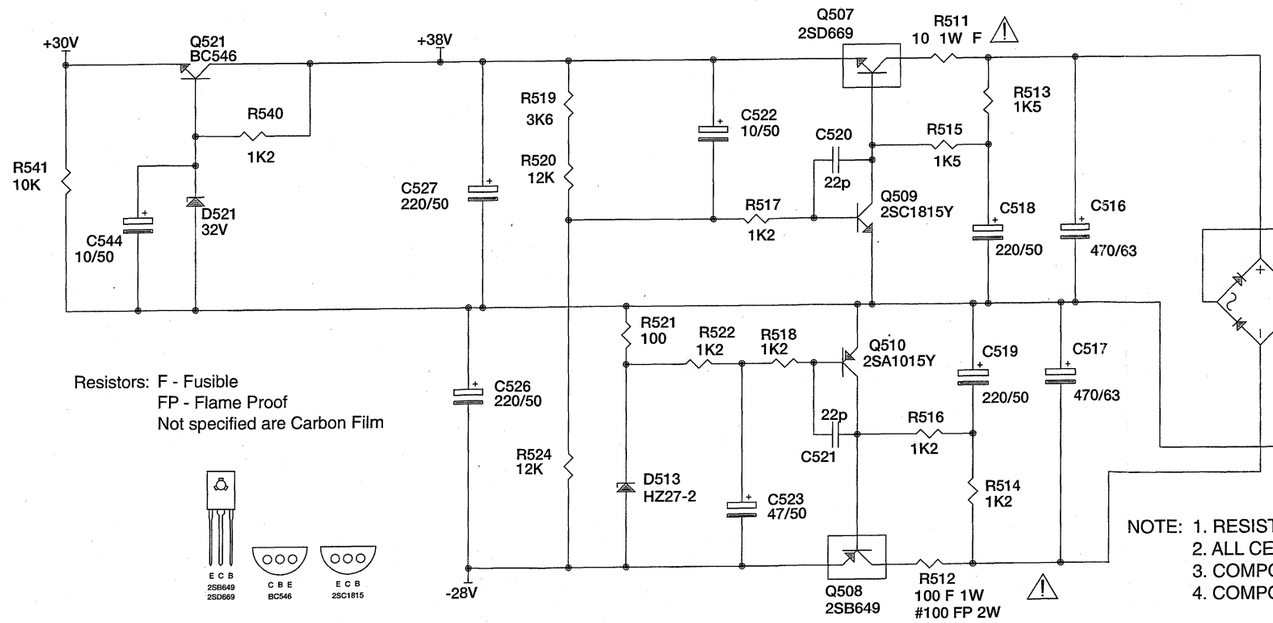
SCHEMATIC DIAGRAM

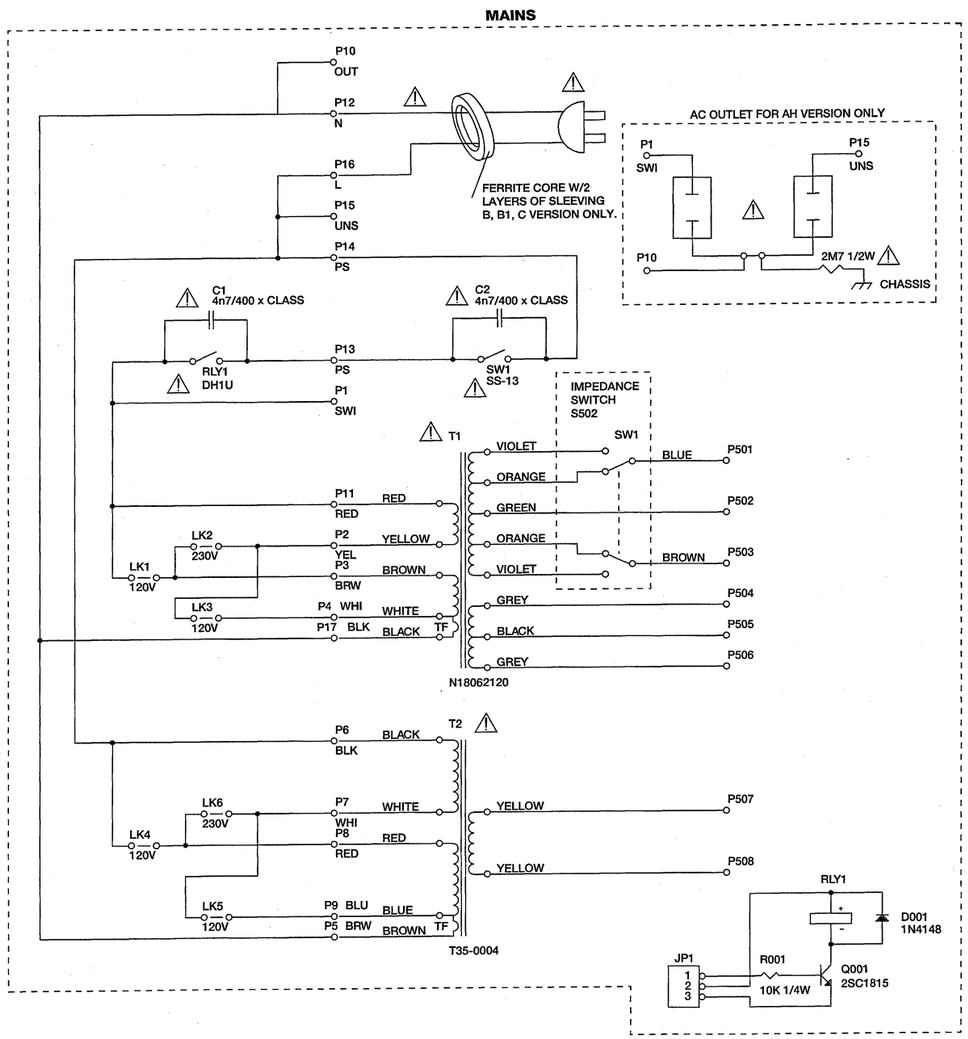
PSU & MAINS





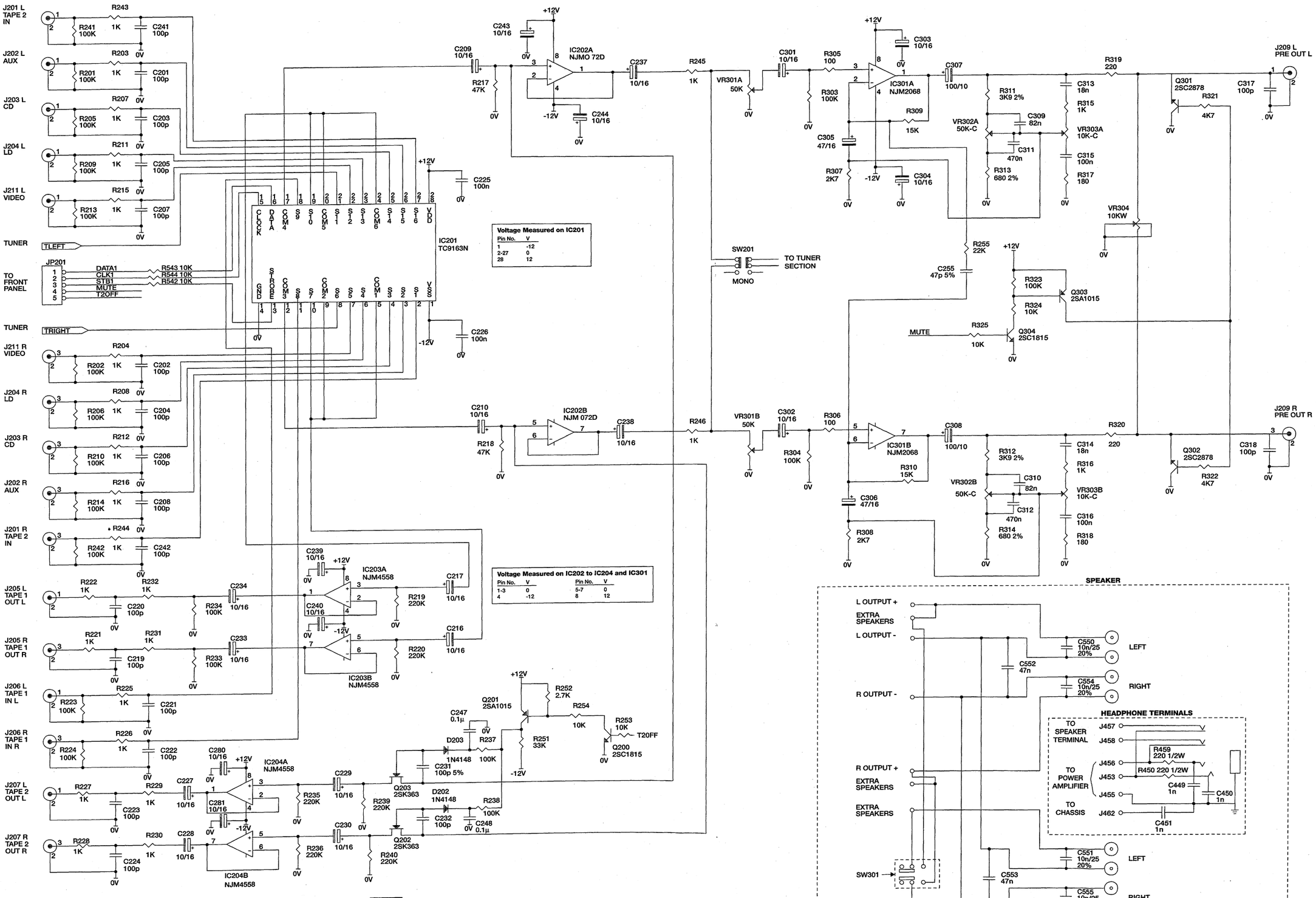




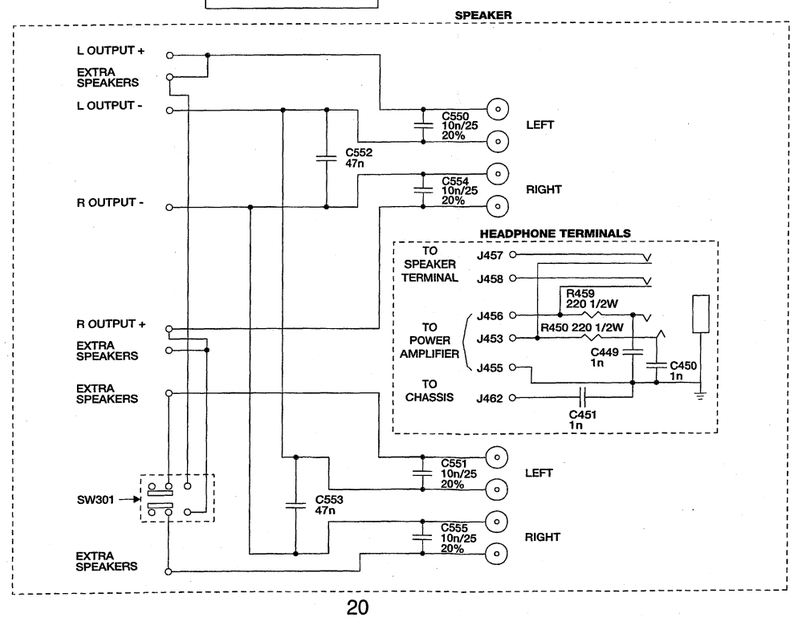


NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED WITH " # " ARE AH VERSION ONLY.
4. COMPONENTS MARKED WITH "⚠" ARE SAFETY CRITICAL PARTS.

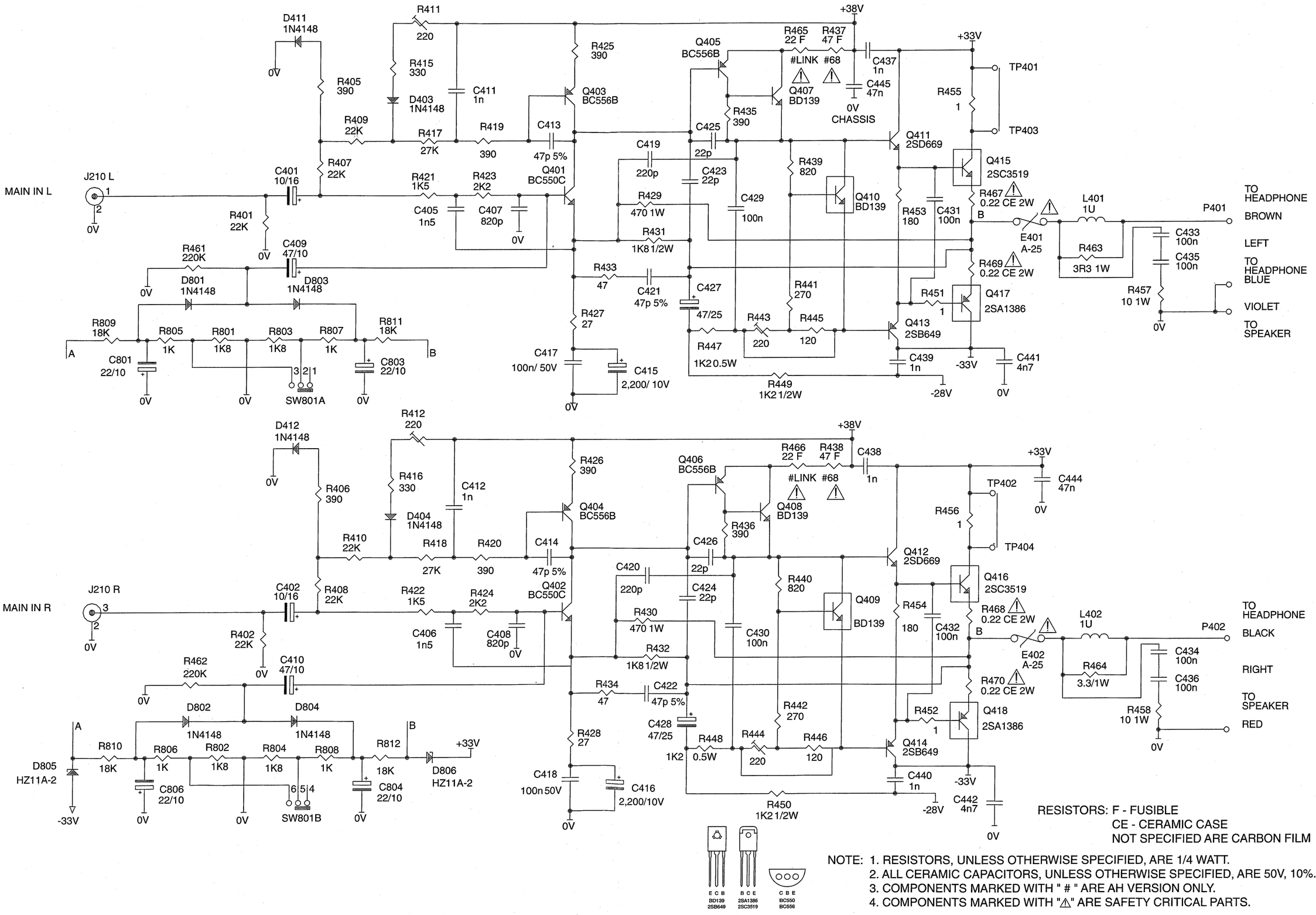
INPUT, SPEAKER & HEADPHONE



NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.



AMPLIFIER



RESISTORS: F - FUSIBLE
CE - CERAMIC CASE
NOT SPECIFIED ARE CARBON FILM

NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED WITH " # " ARE AH VERSION ONLY.
4. COMPONENTS MARKED WITH "⚠" ARE SAFETY CRITICAL PARTS.

TUNER

Voltage Measured on IC701 LM7000

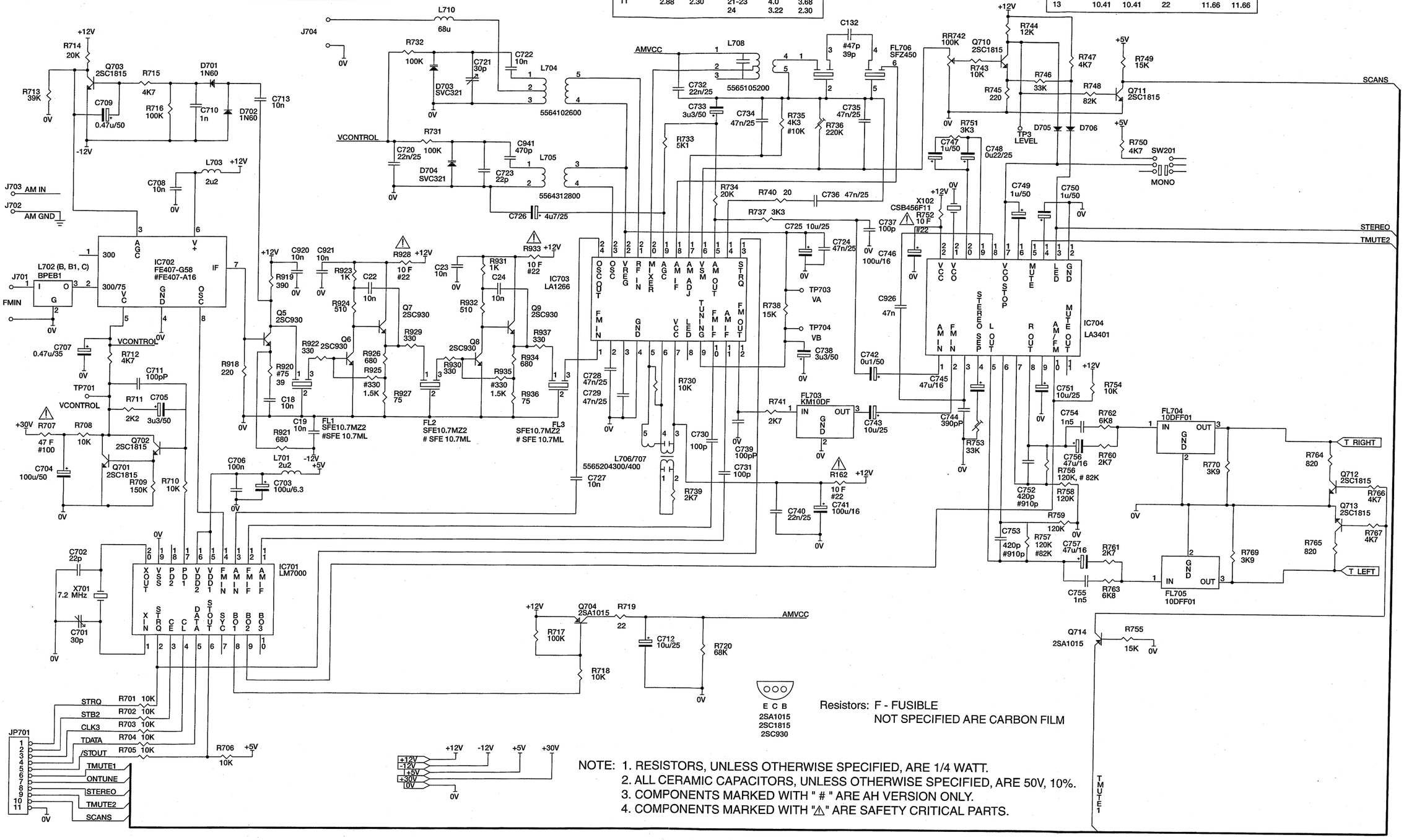
Pin No.	FM	AM	Pin No.	FM	AM
1	1.62	1.62	11-12	0.07	0.07
2-4	0	0	13	0.07	1.80
5	4.95	0	14	2.78	0.04
6	4.95	4.95	15-16	4.95	4.95
7	0	0	17	1.19	1.19
8	0.25	10.66	18	1.57	1.83
9	11.74	0.23	19	0	0
10	0.91	0.99	20	1.30	1.30

Voltage Measured on IC703 LA1266

Pin No.	FM	AM	Pin No.	FM	AM
1	2.54	1.05	12	3.14	3.17
2-3	0	1.05	13	0	0
4	0	0	14	1.54	1.52
5	11.61	11.64	15	1.54	1.46
6-7	11.58	11.58	16-17	0	0
8	10.30	10.30	18	2.54	1.08
9	4.07	3.81	19	1.53	1.44
10	2.46	2.65	20	0	11.84
11	2.88	2.30	21-23	4.0	3.68
			24	3.22	2.30

Voltage Measured on IC704 LA3401

Pin No.	FM	AM	Pin No.	FM	AM
1-4	3.20	3.20	14	5.0	0.05
5	6.27	6.27	15	0	0
6	3.26	3.26	16	2.81	2.81
7	3.20	3.20	17	8.15	9.50
8	6.32	6.32	18	4.76	5.20
9	3.20	3.20	19	2.81	5.20
10	2.50	10.66	20	6.44	7.48
11-12	0	0	21	2.0	2.0
13	10.41	10.41	22	11.66	11.66



Resistors: F - FUSIBLE
NOT SPECIFIED ARE CARBON FILM

NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED WITH " # " ARE AH VERSION ONLY.
4. COMPONENTS MARKED WITH "⚠" ARE SAFETY CRITICAL PARTS.

FRONT PANEL & MOTOR POT

Voltage Measured on IC01

Pin No.	V	Pin No.	V
1	4.2	21-24	0
2-4	0	25	5.0
5-7	5.0	26-27	0
8-9	0	28-31	5.0
10-15	5.0	32-38	0
16	0	39	5.0
17-18	2.5	40	0
19-20	5.0		

IC01
TMS77C82

PSUON 1 — B5 — VSS,GND 40 — 0V
ISEL 2 — B7 — B6 39 — STBY
DSEL 3 — B0 — B4 38 — STRQ
MUTE 4 — B1 — B3 37 — LSEL
TMUTE2 5 — B2 — MC 36
LKIN 6 — A0 — C7 35 — C7
T2LED 7 — A1 — C6 34 — C6
SCANS 8 — A2 — C5 33 — C5
TMUTE1 9 — A3 — C4 32 — C4
/STOUT 10 — A4 — C3 31 — C3
IRS 11 — A7 — C2 30 — C2
INT3 12 — INT 3 — C1 29 — C1
INT1 13 — INT 1 — C0 28 — C0
14 — RESET — D0 27 — SDATA
TDATA 15 — A6 — D1 26 — CLK1
CLK3 16 — A5 — VCC,+5 25 — +5V
17 — XTAL2 — D2 24 — CLK2
18 — XTAL1 — D3 23 — STB2
LKOUT 19 — D7 — D4 22 — VOLD
EED 20 — D6 — D5 21 — VOLU

+5V — R35 10K — INT3
+5V — R01 22K — INT1
+5V — D01 — R02 100K — RESET
C01 1/16 — 0V
C02 22p — XTAL2
C03 22p — 0V — XTAL1
R03 1M
CR01 4.915MHz

+5V — R04 750 — D09 — LED GREEN STANDBY — STBY

+5V — C04 470n/63 — 0V

Voltage Measured on IC02

Pin No.	V	Pin No.	V
1-12	1.2	55	4.0
13	0	56-57	5.0
14-23	1.2	58	2.5
24	5.0	59-63	0
25-54	1.2	64	1.2

IC02
LC7582

+5V — OSC 55 — Vdd 56 — /INH 57 — VLCD 58 — Vss 59 — 0V
DSEL 60
CLK2 61
SDATA 62
CM1 64
+5V — R05 10K — R06 10K — C06 100n — C07 680p — R07 10K — 0V

LCD01
VI-514-DP

CM1	1	40	CM1
CM1	2	39	CM1
S32	3	38	CM1
CM1	4	37	S12
S34	5	36	S11
S35	6	35	S10
S36	7	34	S9
CM1	8	33	CM1
S37	9	32	S8
S38	10	31	S13
S39	11	30	S14
S40	12	29	S15
S41	13	28	CM1
S42	14	27	S16
S43	15	26	S27
CM1	16	25	S28
S44	17	24	S29
S45	18	23	S30
S46	19	22	S31
S47	20	21	S33

Voltage Measured on IC901

Pin No.	V
1-2	5.0
3-8	0
9-10	5.0

MOTOR POT

VR901A — R901 470 — J901B (L, R) — J901A (L, R)
RV MPOT — IC901 — LB1642 — C901 10/16
J904A: +5V, VOLD, VOLU, 0VD, LED

TO TUNER — JP05: STRQ, STB2, CLK3, TDATA, /STOUT, TMUTE1, ONTUNE, STEREO, TMUTE2, SCANS — 0V

SEL, SDA, CLK2 — 1 2 3 5 — 16 — 8 — 0V
C05 100n — +5V
IC03 4094: STR, DCLK, +VDD, GND; Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 QS QS

Voltage Measured on IC03

Pin No.	V	Pin No.	V
1-3	0	8-10	0
4-6	5.0	11-16	5.0
7	1.3		

TO MOTOR POT — JP20: VOLD, VOLU, PSUON — 0V
TO INPUT SEL — JP02: SDATA, CLK2, ISEL, MUTE, T2LED
TO POWER SUPPLY — JP06: PSUON — +12V, 0V

D06 TLED AMB — R09 750
D07 PLED GRN — R10 750
D08 SLED GRN — R11 750
DSW1 CD GRN — R12 750
DSW2 AUX GRN — R13 750
DSW3 VIDEO GRN — R14 750
DSW4 LD GRN — R15 750
DSW5 T1MON AMB — R16 750
DSW6 T2 GRN — R17 750
+5V

STEREO — R20 2K — D05 STEREO AMBER — +12V
ONTUNE — R21 2K — D04 ONTUNE GREEN — +12V

IC04 X24C01 — +5V — R18 10K — CLK1
D03 — EED
R19 3K3

T2LED

NAD LINK DIAGRAM

JP204 — NAD LINK
J208L CONN 1 — OUT
J208R CONN 1 — IN
R290 100 — 0V

R29 1K8 — +5V
Q03 2SA1015 — R30 100 — 0V
R22 100
R31 10K
JP08
LK02 OPEN — LK03 LINK
R23 10K — +5V
R24 4K7
R25 4K7
R26 4K7 — R27 4K7 — +5V
Q01 2SC1815
Q02 2SA1015
R28 1K8
D15 1N4148
D16 1N4148
LKIN — INT1 — LKOUT

+5V — R32 10K — R33 10K — R34 10K — R36 10K
JP07 — TO POWER SW

C7	SW1 CD	SW2 AUX	SW3 VIDEO
C6	SW4 LD	SW5 T1MON	SW6 T2
C5	SW13 FM	SW8 TUP	SW9 TDN
C4	SW10 MODE	SW11 STORE	SW12 AM

C2
C1
C0
C3

IC05: +5V — 1 VCC — IRS — 2 O/P — INT1 — D17 1N4148 — 3 0V — 0V — IRS

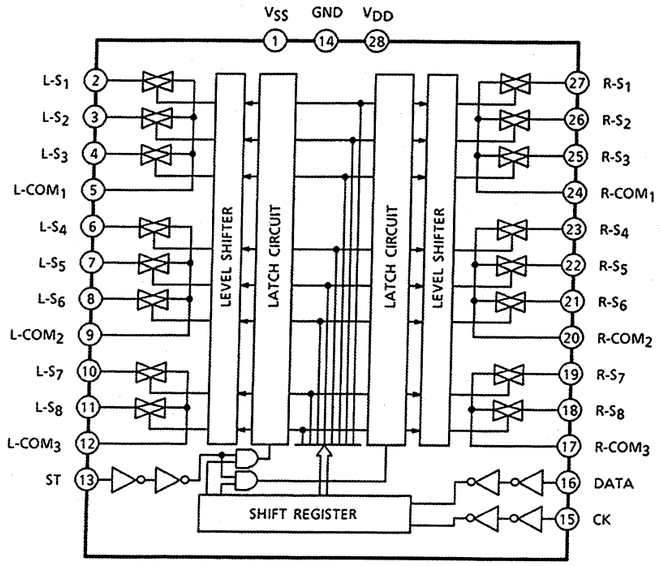
E C B
2SA1015
2SC1815

NOTE.

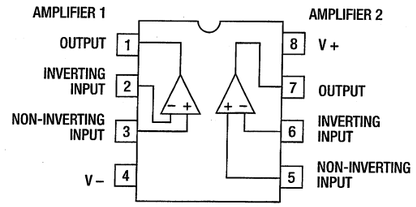
1. RESISTORS, UNLESS OTHERWISE SPECIFIED ARE 1/4 WATT.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

IC BLOCK DIAGRAM

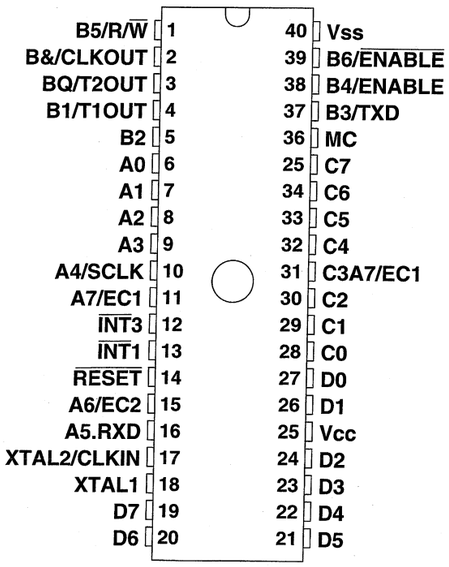
IC201: TC9163N



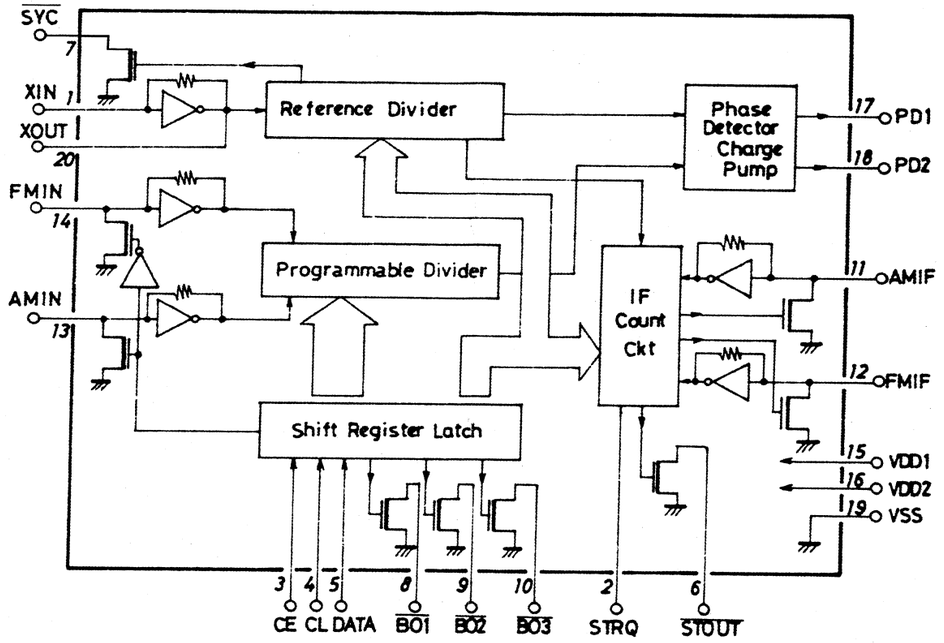
IC202: NJM072D
IC203, IC204: NJM4558, IC301: NJM2068



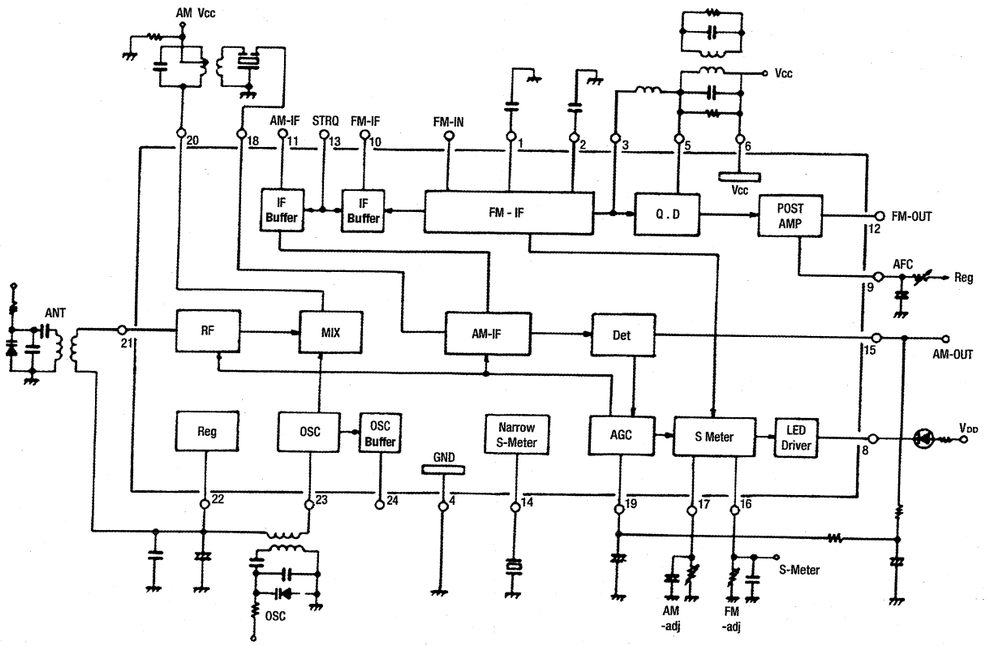
IC01: TMS77C82



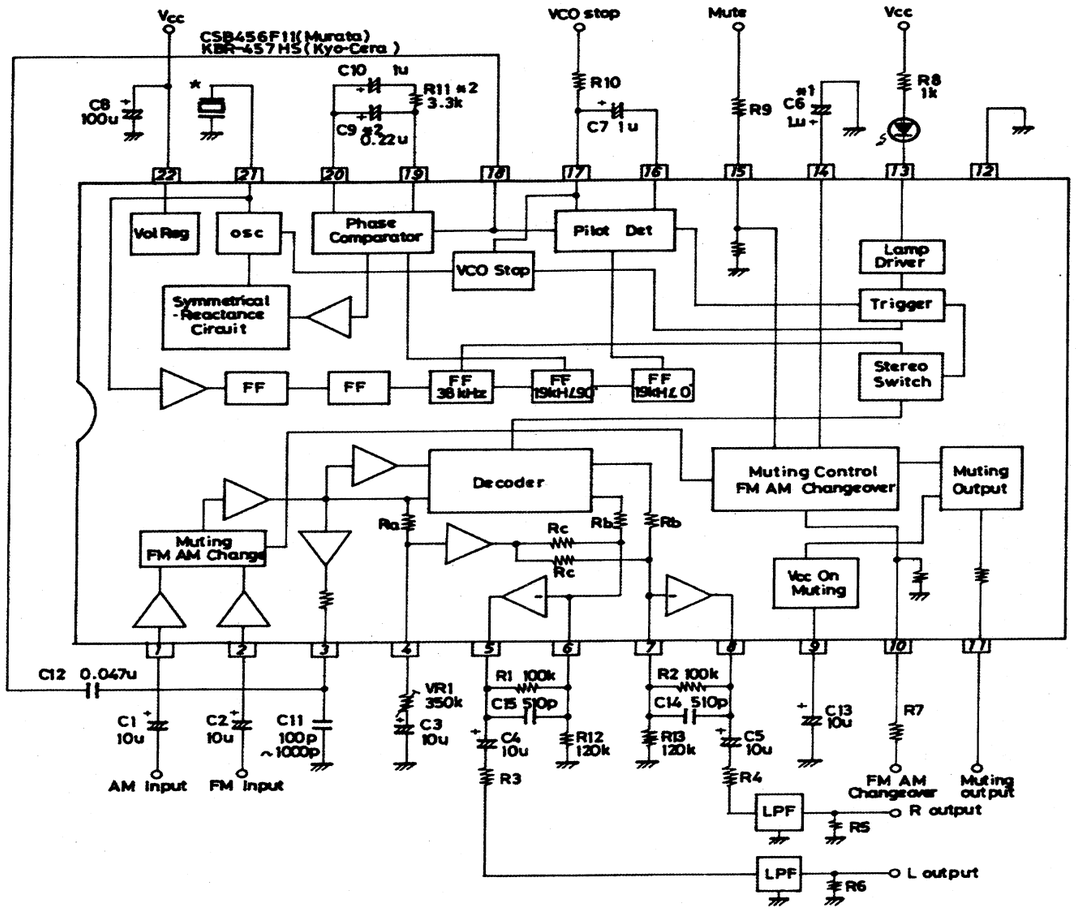
IC701: LM7000 (BLOCK DIAGRAM)



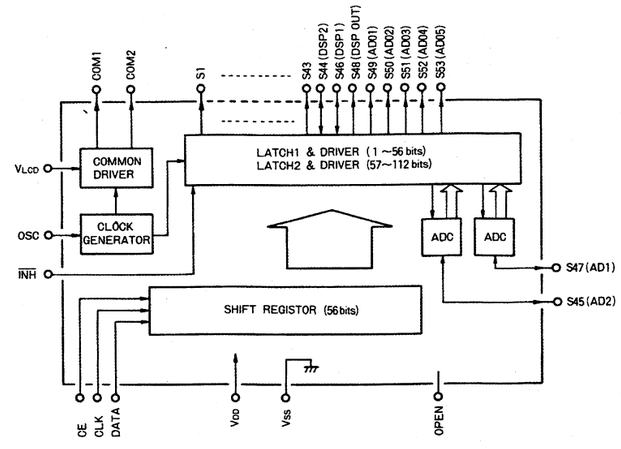
IC703: LA1266 (BLOCK DIAGRAM)

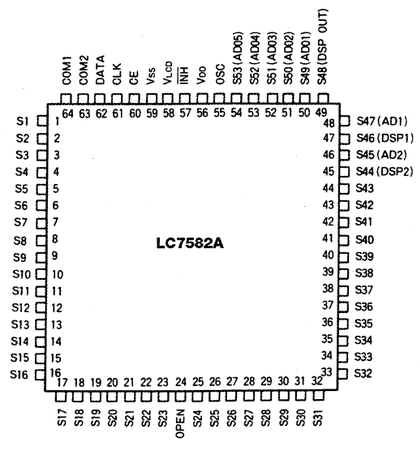


IC704: LA3401

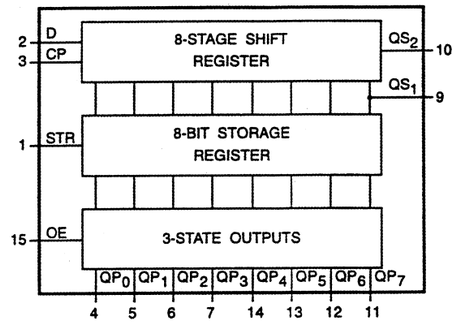


IC02: LC7582A (BLOCK DIAGRAM)

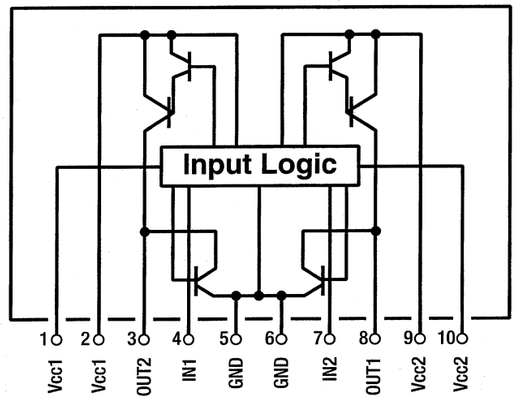




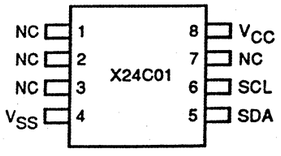
IC03: MC14094BCP

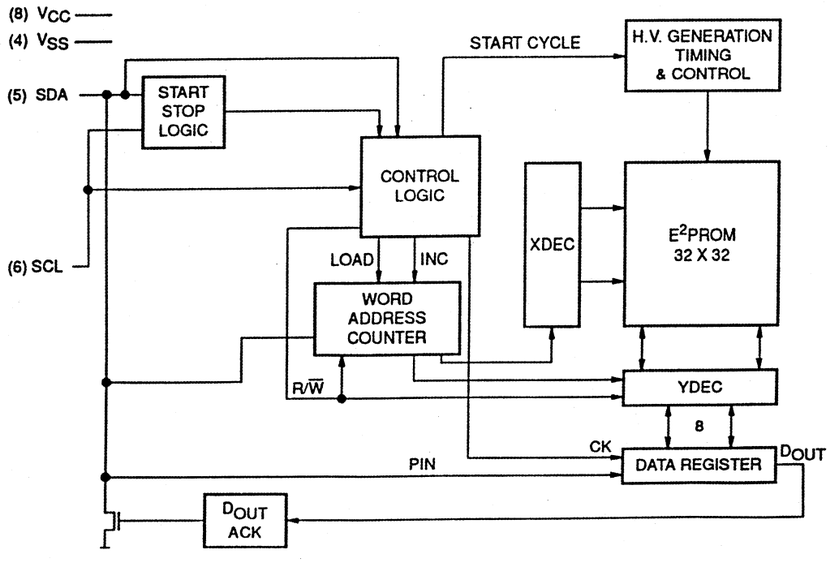


IC901: LB1642

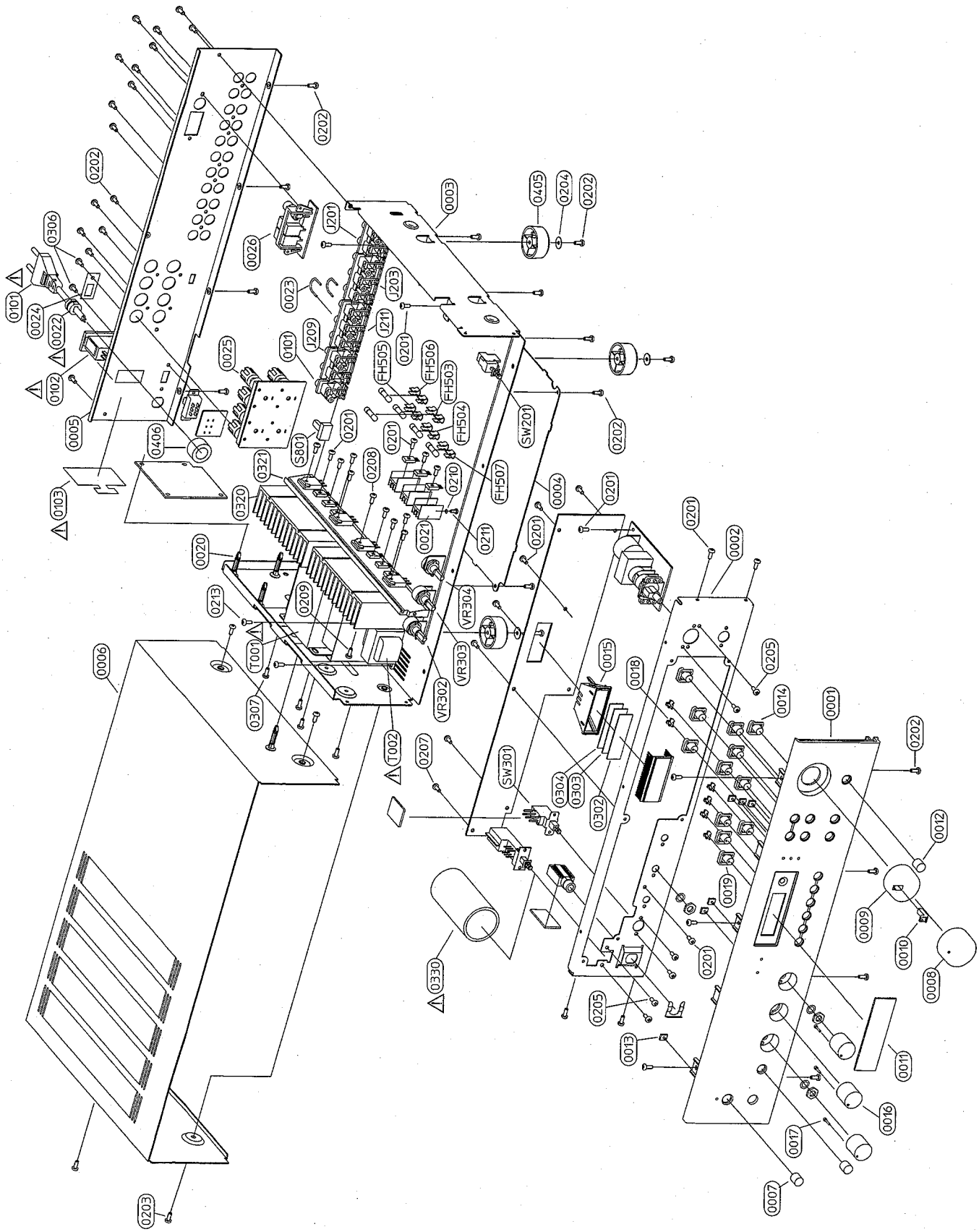


Q710: X24C01P





EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Item	Part No	Description	Qty
0001	N14630511-0	FASCIA	1
0002	N14023820-0	SUBFASCIA	1
0003	1402-3720-0	CHASSIS	1
0004	N14023810-0	BASE COVER	1
0005*AH	1402-4012-0	REAR PANEL	1
0005*B,B1,C	1402-3833-0	REAR PANEL W/SS	1
0006	N14023840-0	TOP COVER	1
0007	N2437510B-0	DIA 9.5 POWER BUTTON	1
0008	N14023460-0	35MM KNOB SKIN	1
0009	N24377601-0	35MM KNOB CORE	1
0010	N24377706-0	35MM KNOB LENS	1
0011	N37146111-0	WINDOW LENS	1
0012	N24376001-0	LONG BUTTON 8.0MM	2
0013	N37145706-0	LED LENS	6
0014	N24377301-0	SINGLE BUTTON	6
0015	N21502171-1	LIGHTBOX (WHITE REFLECTOR)	1
0016	N24375701-1	KNOB 18.5MM (BASS,TREBLE,BALANCE)	3
0017	N41520041-0	POINTER	3
0018	N37143306-0	BUTTON LENS	6
0019	N24377401-0	SINGLE LENS BUTTON	6
0020	4152-0791-0	PCB SUPPORT CBS-18R 18MM HIGH	4
0021	N54000831-0	HEATSINK 20MM-HIGH HOLE	3
0022 ⚠	N41519461-0	STRAIN RELIEF BUSHING	1
0023	N41321021-0	U-SHORTING BAR 18MM PI	2
0024	N41519431-0	PLATE SWITCH 0.5 PVC	1
0025*AH	N21036004-0	SPK TERM W/O PLUG	2
0025*B,B1,C	2103-6604-1	SPK TERM W PLUG	2
0026*AH	N21070641	ANT-TERMINAL F-TYPE	1
0026*B,B1,C	N21070681	ANT TERMINAL DIN-TYPE	1
0101*AH ⚠	N70093100-1	AC CORD	1
0101*B ⚠	N70095110-1	AC CORD	1
0101*C ⚠	N70093110-1	AC CORD	1
0101*B1 ⚠	N70091190-0	AC CORD	1
0102*AH ⚠	2103-7701-2	AC OUTLET	1
0103*AH ⚠	N41519941-0	AC OUTLET COVER PLATE	1
0201	2954-3008-0000	TAPPING 3X8MM B-TITE (YEL.ZN)	22
0202	2954-3008-3000	TAPPING 3X8MM B-TITE (BLK.ZN)	41
0203	2900-4006-3010	M4X0.5PX6MM W/FLAT WASHER	4
0204	2842-3367-0	METAL WASHER ID=3.3 OD=6.7	4
0205	2904-3006-0000	SCREW M3X6 MM (YEL.ZN)	6
0207	2954-3006-0000	TAPPING 3X6MM B-TITE (YEL.ZN)	6
0208	2904-3010-0000	SCREW M3X10MM (YEL.ZN)	4
0209	2950-3008-0000	TAPPING 3X8 B-TITE PH (YEL.ZN)	4
0210	2601-2608-0601	FIBRE WASHER M2.6 0.8T OD=6	3

Item	Part No	Description	Qty
0213	2904-3004-4000	SCREW M3X4 MM (WHI.ZN)	2
0302	N3714110B-0	LEE FILTER NO217 BLUE DIFFUSER	1
0303	3714-640B-0	LEE FILTER NO202 1/2 CT BLUE	3
0304	N37141006-0	DIFFUSER LENS 1MM PC SHEET	1
0306	2944-3006-3000	SCREW D3X6 S-TITE BH,BK	2
0307	2900-4006-3010	M4X0.5PX6MM W/FLAT WASHER	4
0320	5400-1081-1	HEAT SINK EXTRUSION	2
0321	5400-1121-1	HEAT SINK BAR	1
0330 ⚠	N16600640-0	SHRINKABLE TUBE ID=30 UL/CSA	1
0405	N41519371-1	RUBBER FOOT 14.8MM HIGH	4
0406*B,B1,C	1808-0130-0	FERRITE CORE D19 X T/O	1
FH503-FH507	4131-9131-0	FUSE HOLDER 6.5MM PITCH	10
J101	N21039102-0	2P RCA JACK 1020-060 ORG	1
J201, J209	N21037604-2	4P RCA JACK R/W NI HSP-204V-01	2
J203, J211	N21038506-2	6P RCA JACK R/W NI HSP-206V-01	2
T001 ⚠	N18062120-1	MAIN TRANSFORMER	1
T002 ⚠	N18062096-0	STANDBY TRANSFORMER	1
VR302	N47503676-0	VR-BASS 2X50KC W/WASHER & NUT	1
VR303	N47503646-0	VR-TRE 2X10KC W/WASHER & NUT	1
VR304	N47503656-0	VR-BAL 1X10KW W/WASHER & NUT	1
S801	N52003131-0-01	2P2T SLIDE SW 3.5T22KYGX	1
SW201	N52003121-0-01	2P2T ALPS SPUN W/O FRAME	1
SW301	N52002081-0-01	PUSH BUTTON SW 2P2J ALPS 1 KEY	1

NOTE : – **The components identified by ⚠ mark are critical for risk of fire and electrical shock. Replace only with part number specified.**

– **<*AH > : USA, Canadian model only.**
<*B > : UK model only.
<*B1 > : Australian model only.
<*C > : European model only.

ELECTRICAL PARTS LIST

Reference No	Part Number	Description
SWITCH ASSEMBLY		
PC BOARD		
	MI-21490G-01-S	SWITCH ASSEMBLY
SWITCH		
S502	N52003031-0-01	SLIDE SWITCH 5.2T22SS28G10
MOTOR POT ASSEMBLY		
PC BOARD		
	MI-21480F-01-S	MOTOR POT ASSEMBLY
CAPACITOR		
C901	157D-106M-5-II	CE 16V 10μF 20%
IC		
IC901A	N31303410-0	IC LB1642 SANYO MOTOR DRIVER
VARIABLE RESISTORS		
VR901A	4750-3860-0	MOTOR POT 50KAX2 VOL
HEADPHONE ASSEMBLY		
PC BOARD		
	MI-21490C-01-S	HEADPHONE ASSEMBLY
PHONE JACK		
W401	2113-1011-0	PHONE JACK 6312-03-070 W/CLIP
ANTENNA ASSEMBLY		
PC BOARD		
*AH	MI-21490H-01-S	ANTENNA ASSEMBLY
*B,B1,C	MI-21490H-02-S	ANTENNA ASSEMBLY
LAMP ASSEMBLY		
PC BOARD		
	MI-21490J-01-S	LAMP ASSEMBLY
LAMP		
LP901-LP902	2450-0716-0	LAMP 12V 90MA 5X10MM
SPEAKER OUTPUT TERMINAL		
PC BOARD		
*AH	MI-21480E-01-S	SPEAKER ASSEMBLY
*B,B1,C	MI-21480E-02-S	SPEAKER ASSEMBLY

Reference No		Part Number	Description
MAINS ASSEMBLY			
PC BOARD			
*AH		MI-21480D-01-S	MAINS ASSEMBLY
*B,B1,C		MI-21480D-02-S	MAINS ASSEMBLY
DIODE			
D001		4804-1480-C	DIODE 1N4148
CAPACITORS			
C001-C002	⚠	N89100049-0	CAP400V 4700P DE7150F472MVA1KC
RESISTOR			
*AH	⚠	4705-275J-2	RCF 2.7M Ohm 1/4W 5% (DISCHARGE)
TRANSISTOR			
Q001		N4851815Y-5	TR 2SC1815-Y HFE 120-240
RELAY			
RLY1	⚠	N45000110-0	RELAY 12V DC TAIKO DGX1-12M
SWITCH			
SW1	⚠	5200-3481-0	POWER SW TV-3 3A/250V
FRONT PANEL ASSEMBLY			
PC BOARD			
		MI-21480B-01-S	FRONT PANEL ASSEMBLY
CAPACITORS			
C01		157F-105M-5-IU	CE 50V 1μF 20%
C04		153I-474J-9-NO	CM 63V 0.47μF 5%
RESONATOR			
CR01		N27030120-0	CERAMIC RESONATOR CSA 4.91MG
DIODES			
D001,D003		4804-1480-C	DIODE 1N4148
D04		N37003512-G	LED GREEN (L-424GDT)3MM
D05-D06		N37003513-Y	LED AMBER (L-424YDT)3MM
D07-D09		N37003512-G	LED GREEN (L-424GDT)3MM
D015-D017		4804-1480-C	DIODE 1N4148
ICS			
IC01		3130-4250-0	IC TMS77C82 OTP PROGRAMMED
IC02		N31303420-0	IC LC7582A SANYO LCD DRIVER
IC03		N31303600-0	MC14094BCP 8-BIT SIPO SR 3S
IC04		N31303450-0	IC X24C01P XICOR EEPROM
IC05		N89100033-0	IR RX KODENSHI HC-341F
LCD DISPLAY			
LCD01		N24601010-0	LCD DISPLAY
TRANSISTORS			
Q01		N4851815Y-5	TR 2SC1815-Y HFE 120-240
Q02-Q03		N48600660-5	TR 2SA1015GR

Reference No	Part Number	Description
SWITCHES		
SW1-SW4	N52003201-0-01	TACT LED GREEN SKWQFG ALPS
SW5	N52003231-0-01	TACT LED AMBER SKHQFH ALPS
SW6	N52003201-0-01	TACT LED GREEN SKWQFG ALPS
SW8-SW13	N52003241-0-01	TACT NO LED SKHQAC ALPS
TUNER & MAIN ASSEMBLY		
PC BOARD		
*AH	MI-21490A-01-S	TUNER & MAIN ASSEMBLY
*B,B1,C	MI-21490A-02-S	TUNER & MAIN ASSEMBLY
CAPACITORS		
C126	153F-473K-4-RY	CM 50V 0.047µF 10%
C132*AH	150F-470J-5-IF	CC 50V 47pF 5%
C132*B,B1,C	150F-390J-5-GG	CC 50V 39pF 5%
C209-C210	157D-106M-5-IU	CE 16V 10µF 20%
C216-C217	157D-106M-5-IU	CE 16V 10µF 20%
C227-C230	157D-106M-5-IU	CE 16V 10µF 20%
C233-C234	157D-106M-5-IU	CE 16V 10µF 20%
C237-C240	157D-106M-5-IU	CE 16V 10µF 20%
C243-C244	157D-106M-5-IU	CE 16V 10µF 20%
C280-C281	157D-106M-5-IU	CE 16V 10µF 20%
C301-C304	157D-106M-5-IU	CE 16V 10µF 20%
C305-C306	157D-476M-5-KW	CE 16V 47µF 20%
C307-C308	157D-107M-5-KW	CE 16V 100µF 20%
C309-C310	153F-823J-5-SY	CM 50V 0.082µF 5%
C311-C312	153I-474J-9-NO	CM 63V 0.47µF 5%
C313-C314	153F-183J-5-KP	CM 50V 0.018µF 5%
C315-C316	153F-104J-5-SY	CM 50V 0.1µF 5%
C401-C402	157D-106M-5-IU	CE 16V 10µF 20%
C405-C406	153F-152J-5-KW	CM 50V 1500pF 5%
C407-C408	153F-821J-5-HS	CM 50V 820pF 5%
C409-C410	157D-476M-5-KW	CE 16V 47µF 20%
C411-C412	153F-102J-5-IM	CM 50V 1000pF 5%
C415-C416	157C-228M-5-S9	CE 10V 2200µF 20%
C417-C418	153F-104J-5-SY	CM 50V 0.1µF 5%
C427-C428	157E-476M-5-IU	CE 25V 47µF 20%
C429-C432	153F-104J-5-SY	CM 50V 0.1µF 5%
C447-C448	15CH-300J-5-IG	CC 50V 30pF 5% NPO
C508-C509	N89100029-0	CE 50V 6800µF 20%
C516-C517	157I-477M-5-X&	CE 63V 470µF 20%
C518-C519	157F-227M-5-S5	CE 50V 220µF 20%
C522	157F-106M-5-IU	CE 50V 10µF 20%
C523	157F-476M-5-OW	CE 50V 47µF 20%
C526-C527	157F-227M-5-S5	CE 50V 220µF 20%
C540	157E-477Z-5-S5	CE 25V 470µF +80/-20%
C541-C543	157F-105M-5-IU	CE 50V 1µF 20%
C544-C545	157F-106M-5-IU	CE 50V 10µF 20%
C546	157D-106M-5-IU	CE 16V 10µF 20%
C701	1551-0210-0	TRIMCAP 5.2-30P TZ03R300FR MUR
C703	157B-107M-5-KM	CE 6.3V 100µF 20%
C704	157F-107M-5-OW	CE 50V 100µF 20%
C705	157F-335M-5-IU	CE 50V 3.3µF 20%
C707	157F-474M-5-IU	CE 50V 0.47µF 20%
C709	157Q-474M-5-IU	CE 35V 0.47µF 20%
C711	158F-101J-5-KW	CP 50V 100pF 5%
C712	157D-106M-5-IU	CE 16V 10µF 20%

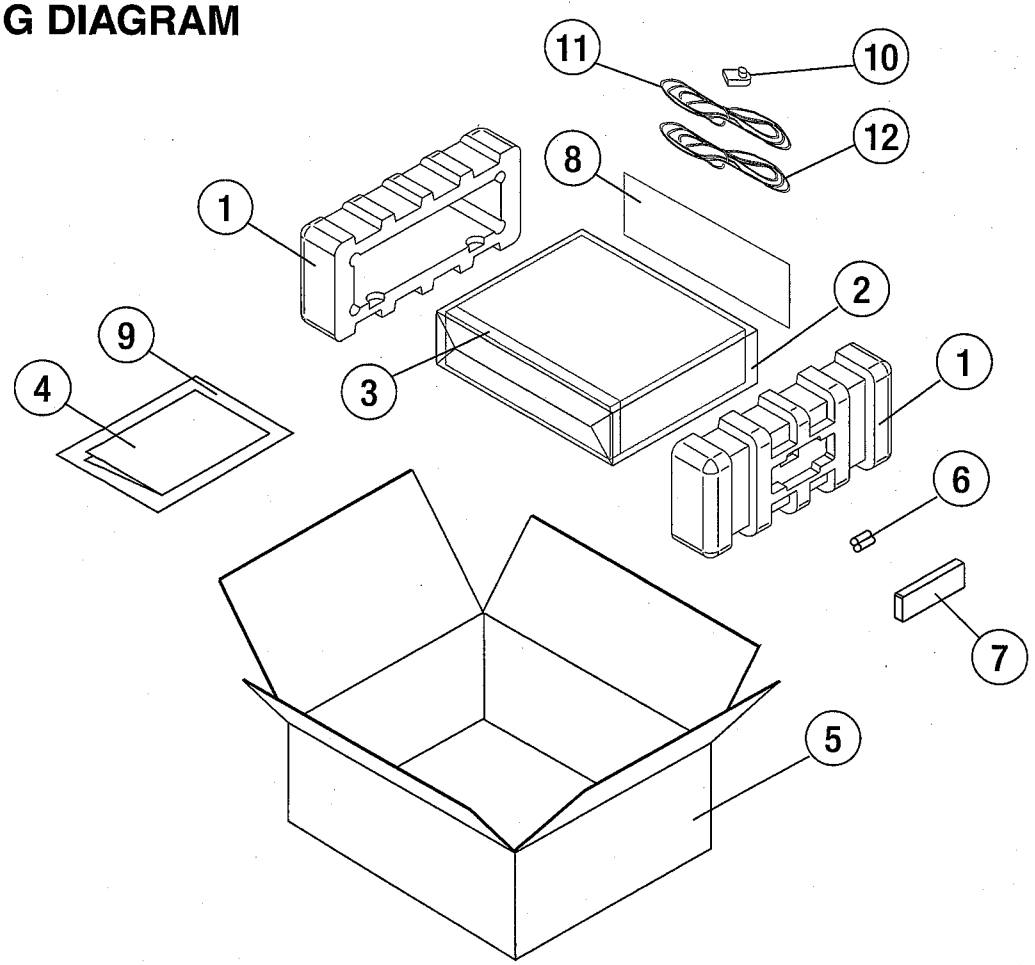
Reference No	Part Number	Description
C721	1551-0210-0	TRIMCAP 5.2-30P TZ03R300FR MUR
C725	157D-106M-5-IU	CE 16V 10µF 20%
C726	157F-475M-5-IU	CE 50V 4.7µF 20%
C733	157F-335M-5-IU	CE 50V 3.3µF 20%
C738	157F-335M-5-IU	CE 50V 3.3µF 20%
C739	158F-101J-5-KW	CP 50V 100pF 5%
C741	157D-107M-5-KW	CE 16V 100µF 20%
C742	157F-104M-5-IU	CE 50V 0.1µF 20%
C743	157D-106M-5-IU	CE 16V 10µF 20%
C744	158F-391J-5-KW	CP 50V 390pF 5%
C745	157D-476M-5-IU	CE 16V 47µF 20%
C746	157D-107M-5-KW	CE 16V 100µF 20%
C747	157F-105M-5-IU	CE 50V 1µF 20%
C748	157F-224M-5-IU	CE 50V 0.22µF 20%
C749-C750	157F-105M-5-IU	CE 50V 1µF 20%
C751	157D-106M-5-IU	CE 16V 10µF 20%
C752-C753*AH	158F-911J-5-KW	CP 50V 910pF 5%
C752-C753*B,B1,C	158E-421J-5-KW	CP 25V 420pF 5%
C754-C755	153F-152J-5-KW	CM 50V 1500pF 5%
C756-C757	157D-476M-5-IU	CE 16V 47µF 20%
C801	157C-226M-5-IM	CE 10V 22µF 20%
C803-C804	157C-226M-5-IM	CE 10V 22µF 20%
C806	157C-226M-5-IM	CE 10V 22µF 20%
DIODES		
D202-D203	4804-1480-2	DIODE 1N4148
D403-D404	4804-1480-2	DIODE 1N4148
D411-D412	4804-1480-2	DIODE 1N4148
D505-D508	4805-4010-1	DIODE 1N5401
D511	N48400470-0	BRIDGE RECTIFIER RS102 100V 1A
D513	4837-24B4-2	ZD 0.5W 27V
D515,D517*AH	635N-0001-0	JUMPER #23 TAPE & WHEEL
D516*AH ⚠	471A-330J-1-X	RFP 33 Ohm 3W 5%
D518*AH ⚠	471A-470J-1-X	RFP 47 Ohm 3W 5%
D515-D518*B,B1,C	4840-1140-0	ZD 1.3W 3.3V 5%
D520	4840-0810-0	BRIDGE DIODE RB154 400V 1.5A
D521	4837-33V0-2	ZD 1/2W 33V (32.2-33.6)
D701-D702	N4801N60P-1	GERMANIUM DIODE IN60P
D703-D704	484C-321D-5	SVC321-D AM CAR. DIODE
D705-706	4804-1480-2	DIODE 1N4148
D801-D804	4804-1480-2	DIODE 1N4148
D805-D806	4837-8C20-2	ZD 1/2W 11.1-11.6V
ICS		
IC201	N31303710-0	IC TC 9163N HV ANALOG SW
IC202	N31303560-0	IC NJM072 (D)
IC203-IC204	3130-0890-0	IC NJM4558D DUAL OP AMP
IC301	N31303660-0	IC NJM2068D DUAL LN-OP AMP
IC501	3130-2020-3	IC L7805 5V REGULATOR
IC502	N31302520-1	IC L7812 12V REGULATOR
IC503	3130-3520-1	IC L7912CV -12V REGULATOR
IC701	N31303430-0	IC LM7000 SANYO DTS
IC702*AH	N89100034-0	TUNER MODULE MITSUMI FE407-A16
IC702*B,B1,C	1300-0606-0	FM TUNER MODULE FE407-G58
IC703	N31303390-0	IC LA1266 SANYO FM/AM TUNER
IC704	N31303400-0	IC LA3401 PLL MPX

Reference No		Part Number	Description
FILTERS & INDUCTORS			
FL1-FL3*AH		N27010546-1-0	CF SFE 10.7 ML-A
FL1-FL3*B,B1,C		N27010556-1-0	CF SFE 10.7 MZ2-A
FL703		N56002296-S	FTZ COIL SUMIDA
FL704-FL705		N56002236-S	19KHZ FILTER COIL
FL706		2701-0066-0	CF SFZ450G
L401-L402		1804-0540-0	SPRING COIL 1µH
L701, L703		1801-2R2M-M	INDUCTOR 2.2µH 20%
L702*B,B1,C		2701-0609-4	BPF BPEB1
L704		N56002276-S	AM RF COIL
L705		N56002286-S	AM OSC COIL
L706		N56002256-S	FM QUAD COIL PRIMARY
L707		N56002266-S	FM QUAD COIL SECONDARY
L708		N56002246-S	AM IF COIL
L710		N1801680M-M	INDUCTOR 68µH 20%
TRANSISTORS			
Q005-Q009		485C-930E-5	TR 2SC930E HFE 100-200
Q200, Q304		4860-0700-5	TR 2SC1815GR
Q201, Q303		N4851015Y-5	TR 2SA1015-Y HFE 100-200
Q202-Q203		N485363BL-5	TR N-FET 2SK-363
Q301-Q302		N48600770-5	TR 2SC2878 (A,B)
Q401-Q402		N485C550C-5	TR BC550C
Q403-Q406		N485C556B-5	TR BC556B
Q407-Q410		N485D1390-5	TR BD139-10 PHILIPS HFE63-160
Q411-Q412, Q507		N485669AC-5	TR 2SD669A-C
Q413-Q414, Q508		N485649AC-5	TR 2SB649A-C HFE 100-200
Q415-Q416		N48600730-5	TR 2SC3519 (0,P,Y)
Q417-Q418		N48600690-5	TR2SA1386 (0,P,Y)
Q509, Q701-Q703, Q710-Q713		4860-0700-5	TR 2SC1815GR
Q510		N4851015Y-5	TR 2SA1015-Y HFE 100-200
Q521		N485C546B-5	TR BC546B
Q704, Q714		N48600660-5	TR 2SA1015GR
RESISTORS			
R162*AH		4705-220J-2	RCF 22 Ohm 1/4W 5%
R162*B,B1,C	⚠	4715-100J-2-F	RFU 10 Ohm 1/4W 5%
R437-R438*AH		4705-680J-2	RCF 68 Ohm 1/4W 5%
R437-R438*B,B1,C	⚠	4715-470J-2-F	RFU 47 Ohm 1/4W 5%
R457-R458	⚠	N4718100J-L-F	RFU 10 1W 5%
R463-R464	⚠	N47183R3J-2-F	RFU 3.3 1W 5%
R465-R466*AH		635N-0001-0	JUMPER #23 TAPE & WHEEL
R465-R466*B,B1,C	⚠	4715-220J-2-F	RFU 22 Ohm 1/4W 5%
R467-R470	⚠	N4719R22J-1	RCE 0.22 2W 5%
R511	⚠	N4718100J-L-F	RFU 10 1W 5%
R512*AH	⚠	N4715101J-2-P	RFP 100 2W 5%
R512*B,B1,C	⚠	4718-101J-1-F	RFU 100 Ohm 1W 5%
R707*AH		4705-101J-2	RCF 100 Ohm 1/4W 5%
R707*B,B1,C	⚠	4715-470J-2-F	RFU 47 Ohm 1/4W 5%
R735*AH		4705-103J-2	RCF 10K Ohm 1/4W 5%
R735*B,B1,C		4705-432J-2	RCF 4.3K Ohm 1/4W 5%
R752*AH		4705-220J-2	RCF 22 Ohm 1/4W 5%
R752*B,B1,C	⚠	4715-100J-2-F	RFU 10 Ohm 1/4W 5%
R756-R757*AH		4705-823J-2	RCF 82K Ohm 1/4W 5%

Reference No		Part Number	Description
R756-R757*B,B1,C		4705-124J-2	RCF 120K Ohm 1/4W 5%
R901	⚠	4718-470J-1-X	RFP 47 Ohm 1W 5%
R920*AH		4705-750J-2	RCF 75 Ohm 1/4W 5%
R920*B,B1,C		4705-390J-2	RCF 39 Ohm 1/4W 5%
R925*AH		4705-331J-2	RCF 330 Ohm 1/4W 5%
R925*B,B1,C		4705-152J-2	RCF 1.5K Ohm 1/4W 5%
R928*AH		4705-220J-2	RCF 22 Ohm 1/4W 5%
R928*B,B1,C	⚠	4715-100J-2-F	RFU 10 Ohm 1/4W 5%
R933*AH		4705-220J-2	RCF 22 Ohm 1/4W 5%
R933*B,B1,C	⚠	4715-100J-2-F	RFU 10 Ohm 1/4W 5%
R935*AH		4705-331J-2	RCF 330 Ohm 1/4W 5%
R935*B,B1,C		4705-152J-2	RCF 1.5K Ohm 1/4W 5%
TRIMMER RESISTORS			
R411-R412		4756-2216-3-06	SVR 220 H3 7X7.6
R443-R444		4756-2216-3-06	SVR 220 H3 7X7.6
R736		N47562240-3-11	SVR 220K H3 10X10
RR742		N47561040-3-11	SVR 100K H3 10X10
R753		N47563330-3-11	SVR 33K H3 10X10
BREAKERS			
E401-E402	⚠	8910-0088-0	BREAKER 2.5A A-25
FUSES			
F503-F504*AH	⚠	5120-0019-0	FUSE 4A 125V TIME LAG LBC UL/CSA
F505-F507*AH	⚠	5120-0026-0	FUSE 315mA 250V TIME LAG LBC UL/CSA
F503-F504*B,B1,C	⚠	5120-0017-0	FUSE 4A 250V TIME LAG HBC SEMKO/VDE
F505-F507*B,B1,C	⚠	5120-0027-0	FUSE 315mA 250V TIME LAG LBC SEMKO/VDE
RESONATOR			
X102		2703-0020-0	CR RESONATOR CSB456F11
CRYSTAL			
X701		N23000440-0	CRYSTAL 7.2MHZ 20PPM

NOTE :
- **The components identified by ⚠ mark are critical for risk of fire and electrical shock. Replace only with part number specified.**
- **<*AH > : USA, Canadian model only.**
  <*B > : UK model only.
  <*B1 > : Australian model only.
  <*C > : European model only.
- **Capacitors : CP-Polystyrere, CM-Mylar, CE-Electrolytic, CC-Ceramic.**
- **Resistors : RMF-Metal Film, RFU-Fusible, RCF-Carbon Film, RCE-Ceramic Case, RFP-Flame Proof.**

PACKING DIAGRAM



PACKING LIST

Item	Part No	Description	Qty
1	1490-1843-1	POLYFOAM END CAP	2
2	N14971332-1	UNIT POLYBAG	1
3	N14971442-0	FASCIA COVER	1
4	4301-3587-1	INSTRUCTION MANUAL	1
5	N14763601-0	CARTON BOX	1
6	4060-0580-0	BATTERIES	2
7	8900-1070-0	REMOTE CONTROL	1
8	1497-1302-0	ACCESSORIES POLYBAG	1
9	N14971062-0	MANUAL POLYBAG	1
10*AH	N21036101-0	RF CONNECTOR PLUG F-Type	1
10*B,B1,C	N21036201-0	RF CONNECTOR PLUG DIN-Type	1
11	N21070661-1	300-OHM T ANTENNA	1
12	N70093220-0	200CM WHITE AWG22	1

NOTE : **<*AH > : USA, Canadian model only.**
<*B > : UK model only.
<*B1 > : Australian model only.
<*C > : European model only.

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